

| INFORME DE BÚSQUEDA DE PATENTES PARA EL No de Radicación: 2012 077071                                                                                                                                                                 |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------|------------------------------------------------------------------|----|
| <b>CRITERIOS PARA LA BÚSQUEDA (anexar pantallazo o reporte en PDF, junto con los boleanos utilizados)</b>                                                                                                                             |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
| <b>Palabras clave utilizadas</b>                                                                                                                                                                                                      |                                                         | Exendin AND methionine AND histidine AND                                                                                           |                 |                                   |                                                                  |    |
| <b>CLASIFICACIONES INTERNACIONALES UTILIZADAS PARA LA BÚSQUEDA</b>                                                                                                                                                                    |                                                         | C09C 1/04; C09C 1/24; C09C 1/30; C09C 1/40; C09C 3/10 y A61K 8/00                                                                  |                 |                                   |                                                                  |    |
| <b>BASES DE DATOS CONSULTADAS.</b>                                                                                                                                                                                                    |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
| Espacenet                                                                                                                                                                                                                             |                                                         | US5424286<br>US20040191243<br>WO9856418<br>WO2004035623<br>WO2008023050<br>WO2008045563<br>WO2009107900                            |                 |                                   |                                                                  |    |
| USPTO                                                                                                                                                                                                                                 |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
| PatBase                                                                                                                                                                                                                               |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
| Google Patents                                                                                                                                                                                                                        |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
| <b>INFORMES DE EXÁMENES REALIZADOS EN OTRAS OFICINAS (documentos patentes, literatura no patente etc...)</b>                                                                                                                          |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
| Oficina                                                                                                                                                                                                                               | Fecha del examen o de reporte de búsqueda de documentos | Anterioridades encontradas para el examen o reportados en el examen de búsqueda(relacionarlos todos)                               | Reiv. afectadas | RELEVANCIA (requisito que afecta) | FUERON TENIDOS EN CUENTA PARA EL EXAMEN EN LA OFICINA COLOMBIANA |    |
|                                                                                                                                                                                                                                       |                                                         |                                                                                                                                    |                 |                                   | SI                                                               | NO |
| EUROPEA                                                                                                                                                                                                                               |                                                         | XD]WO2004035623<br>[X]US2008260840<br>[X]US2008146490<br>[I]US2001012829<br>[I]WO2005028516<br>[X]WO2009102467<br>[XP]WO2010044867 | 1 - 20          | Nivel inventivo                   |                                                                  | No |
|                                                                                                                                                                                                                                       |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
|                                                                                                                                                                                                                                       |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
|                                                                                                                                                                                                                                       |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
|                                                                                                                                                                                                                                       |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
|                                                                                                                                                                                                                                       |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
|                                                                                                                                                                                                                                       |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
| <b>DOCUMENTOS ADICIONALES ENCONTRADOS POR EL EXAMINADOR DE ACUERDO A LOS CRITERIOS DE BÚSQUEDA.</b>                                                                                                                                   |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
| Protein & Peptide Letters, 2007, 14, 19-25. 2007 Bentham Science Publishers Ltd.                                                                                                                                                      |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
| Stability of Synthetic Exendin-4 in Human Plasma In Vitro Jie Chen, et. al.                                                                                                                                                           |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
| Exendin-4 inhibits interleukin-1b-induced iNOS expression at the protein level, but not at the transcriptional and posttranscriptional levels, in RINm5F b-cells. Jung-Hoon Kang, et. al. Journal of Endocrinology (2009) 202, 65–75. |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
| Perspectives in Diabetes. Therapeutic Strategies Based on Glucagon-Like Peptide 1. Carolyn F. Deacon. DIABETES, VOL. 53, SEPTEMBER 2004                                                                                               |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
| Purification and bioactivity of exendin-4, a peptide analogue of GLP-1, expressed in Pichia pastoris. Jin Zhou, et. al. Biotechnol Lett (2008) 30:651–656. DOI 10.1007/s10529-007-9610-4.                                             |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |
| GenScript. Material Safe Data Sheet.                                                                                                                                                                                                  |                                                         |                                                                                                                                    |                 |                                   |                                                                  |    |

| In vivo expression of GLP-1/IgG-Fc fusion protein enhances beta-cell mass and protects against streptozotocin-induced diabetes. N Soltani. Gene Therapy (2007) 14, 981–988 & 2007     |                                |          |          |      |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------|----------|------|--------------|
| Developments and Challenges for mAb-Based Therapeutics. Sumit Goswami, et. al. Antibodies 2013, 2, 452-500; doi:10.3390/antib2030452.                                                 |                                |          |          |      |              |
| In Vitro Metabolic Stability of Exendin-4:Pharmacokinetics and Identification of Cleavage Products. Sha Liao, et. al. PLOS ONE   DOI:10.1371/journal.pone.0116805. February 27, 2015. |                                |          |          |      |              |
|                                                                                                                                                                                       |                                |          |          |      |              |
|                                                                                                                                                                                       |                                |          |          |      |              |
|                                                                                                                                                                                       |                                |          |          |      |              |
|                                                                                                                                                                                       |                                |          |          |      |              |
|                                                                                                                                                                                       |                                |          |          |      |              |
| <b>BÚSQUEDA DE SECUENCIAS</b>                                                                                                                                                         |                                |          |          |      |              |
| Número de depósito / patente y N° de secuencia<br>% de identidad                                                                                                                      |                                |          |          |      |              |
| SEQ ID NO<br>(de la solicitud)                                                                                                                                                        | NCBI                           | The Lens | EMBL-EBI | DDJB | Genome Quest |
|                                                                                                                                                                                       | Depósito / Patente y<br>SEQ ID |          |          |      |              |
|                                                                                                                                                                                       | % de identidad                 |          |          |      |              |
|                                                                                                                                                                                       |                                |          |          |      |              |
|                                                                                                                                                                                       |                                |          |          |      |              |
|                                                                                                                                                                                       |                                |          |          |      |              |
|                                                                                                                                                                                       |                                |          |          |      |              |

## CRITERIOS DE BÚSQUEDA / UNIDAD DE INVENCION (Pantallazos)