

TECHNICAL DATA SHEET

Recombinant Human GLP-1 (Carrier-Free)

Catalog Number: 21-9089

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human GLP-1 (Carrier-Free)

DESCRIPTION

GLP-1 is a proglucagon-derived peptide hormone secreted primarily by intestinal L cells during feeding. Its major physiological function is the stimulation of pancreatic beta cells to release appropriate amounts of insulin after glucose absorption. Other biological actions exhibited by GLP-1 include the suppression of plasma glucagon levels, inhibition of gastric motility, and promotion of satiety. The secretion of GLP-1 from intestinal L cells is stimulated by nutrients, hormones, and neural inputs. On the other hand, insulin has been reported to inhibit GLP-1 release, indicating that a feedback loop mechanism regulates GLP-1 secretion.

MOLECULAR MASS

Recombinant Human GLP-1 is a 3.3 kDa polypeptide consisting of 31 amino acid residues.

AMINO ACID SEQUENCE

HAEGTFTSDV SSYLEGQAAK EFAIWLKGR G

SOURCE

E.coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1EU/μg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

BIOACTIVITY

Data not available at this time.

RESEARCH AREAS

Wound Healing, Diabetes/Weight Regulation

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Thornton SN, Regnault V, Lacolley P. N Engl J Med. 2017 Nov 30;377(22):2196-7. doi: 10.1056/NEJMc1713042. Gulli G. N Engl J Med. 2017 Nov 30;377(22):2195-6. doi: 10.1056/NEJMc1713042.

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

For Research Use Only.

Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biotechnologies Corporation. © 2013 Tonbo Biosciences.