PRODUCT INFORMATION

GLP-2 (1-34) (human) (trifluoroacetate salt)

Item No. 24756

Formal Name: L-histidyl-L-alanyl-L-α-aspartylglycyl-L-seryl-L-phenylalanyl-L-seryl-L-α-aspartyl-L-α-glutamyl-L-methionyl-L-asparaginyl-L-threonyl-L-isoleucyl-L-leucyl-L-α-aspartyl-L-asparaginyl-L-leucyl-L-alanyl-L-alanyl-L-arginyl-L-α-aspartyl-L-phenylalanyl-L-isoleucyl-L-asparaginyl-L-tryptophyl-L-leucyl-Lisoleucyl-L-glutaminyl-L-threonyl-L-lysyl-L-isoleucyl-L-threonyl-L-α-aspartyl-L-arginine, trifluoroacetate salt

H—His—Ala—Asp—Gly—Ser—Phe—Ser—Asp—Glu—Met—
Asn—Thr—Ile—Leu—Asp—Asn—Leu—Ala—Ala—Arg—
Asp—Phe—Ile—Asn—Trp—Leu—Ile—Gln—Thr—Lys—
Ile—Thr—Asp—Arg—OH

• XCF_3COOH

Synonym: Glucagon-like Peptide 2 (1-34)
MF: $C_{171}H_{266}N_{48}O_{56}S \bullet XCF_3COOH$
FW: 3,922.3
Purity: ≥95%
Supplied as: A lyophilized powder
Storage: -20°C
Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

GLP-2 (1-34) (human) (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the GLP-2 (1-34) (human) (trifluoroacetate salt) in water. The solubility of GLP-2 (1-34) (human) (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

GLP-2 (1-34) (human) is a synthetic form of the human peptide GLP-2 (Item No. 24414) that contains the full human sequence with the addition of an arginine residue at the C-terminal end.[1] It increases survival of myenteric neurons cultured alone (EC_{50} = 0.35 nM) and when co-cultured with mast cells to induce cell death.[2] It does not stimulate insulin release from isolated rat pancreatic islets in the presence of glucose when used at concentrations ranging from 2.5 to 250 nM.[1] GLP-2 (1-34) (human) also does not affect formation of adenomas in a transgenic model of intestinal tumorigenesis using $Apc^{Min/+}$ mice.[3]

References

1. Schmidt, W.E., Siegel, E.G., and Creutzfeldt, W. Glucagon-like peptide-1 but not glucagon-like peptide-2 stimulates insulin release from isolated rat pancreatic islets. *Diabetologia* **28(9)**, 704-707 (1985).
2. Voss, U., Sand, E., Hellström, P.M., *et al*. Glucagon-like peptides 1 and 2 and vasoactive intestinal peptide are neuroprotective on cultured and mast cell co-cultured rat myenteric neurons. *BMC Gastroenterol.* **12**, 30 (2012).
3. Koehler, J.A., Harper, W., Barnard, M., *et al*. Glucagon-like peptide-2 does not modify the growth or survival of murine or human intestinal tumor cells. *Cancer Res.* **68(19)**, 7897-7904 (2008).

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