Product Data Sheet

Product Name: GLP-1 (7-36) acid (human, mouse, rat, porcine, bovine)
Cat. No.: GC92119

Chemical Properties

Cas. No.

Chemical Name: L-histidyl-L-alanyl-L-α-glutamylglycyl-L-threonyl-L-phenylalanyl-L-threonyl-L-seryl-L-α-aspartyl-L-valyl-L-seryl-L-seryl-L-tyrosyl-L-leucyl-L-α-glutamylglycyl-L-glutaminyl-L-alanyl-L-alanyl-L-lysyl-L-α-glutamyl-L-phenylalanyl-L-isoleucyl-L-alanyl-L-tryptophyl-L-leucyl-L-valyl-L-lysylglycyl-L-arginine, monoacetate

SMILES: OC(CC[C@H](NC([C@@H](NC([C@H](CC1=CN(C=N1)[H])N[H])=O)C)=O)C(NCC(N[C@@]([H])([C@@H](C)O[H])C(N[C@H](C(N[C@@]([H])([C@@H](C)O[H])C(N[C@@H](CO[H])C(N[C@@H](CC(O)=O)C(N[C@@H](C(C)C)C(N[C@@H](CO[H])C(N[C@@H](CO[H])C(N[C@@H](CC(C=C2)=CC=C2O[H])C(N[C@H](C(N[C@@H](CCC(O)=O)C(NCC(N[C@@H](CCC(N[H])=O)C(N[C@H](C(N[C@H](C(N[C@@H](CCCCN[H])C(N[C@@H](CCC(O)=O)C(N[C@H](C(N[C@@](C(N[C@H](C(N[C@@H](CC3=CN([H])C4=C3C=CC=C4)C(N[C@H](C(N[C@@H](C(C)C)C(N[C@@H](CCCCN[H])C(NCC(N[C@@H](CCC/N=C(N)\N[H])C(O)=O)=O)=O)=O)=O)CC(C)C)=O)=O)C)=O)([H])[C@H](CC)C)=O)CC5=CC=CC=C5)=O)=O)=O)C)=O)C)=O)=O)=O)=O)CC(C)C)=O)=O)=O)=O)=O)=O)=O)=O)CC6=CC=CC=C6)=O)=O)=O)=O.CC(O)=O

Formula: $C_{149}H_{225}N_{39}O_{46}$? $C_2H_4O_2$ M.Wt: 3358.7

Solubility: DMSO: Sparingly soluble: 1-10 mg/ml,PBS (pH 7.2): Slightly soluble: 0.1-1 mg/ml Storage: -20°C

General tips: For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.

Shipping Condition: Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure:

H—His—Ala—Glu—Gly—Thr—Phe—Thr—Ser—Asp—Val—
Ser—Ser—Tyr—Leu—Glu—Gly—Gln—Ala—Ala—Lys—
Glu—Phe—Ile—Ala—Trp—Leu—Val—Lys—Gly—Arg—OH
• CH_3CO_2H

Caution: Product has not been fully validated for medical applications. For research use only.

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Product Data Sheet

Background

Glucagon-like peptide 1 (GLP-1) (7-36) acid is a derivative of the hormone and GLP-1 receptor (GLP-1R) agonist GLP-1 (7-36) amide.[1,2] It enhances insulin-induced phosphorylation of Akt in 3T3-L1 adipocytes when used at a concentration of 100 nM in the presence of a dipeptidyl peptidase 4 (DPP-4) inhibitor.[2] GLP-1 (7-36) acid (150 ?g/kg) reduces plasma levels of total cholesterol, triglycerides, free fatty acids, LDL, insulin, and leptin, as well as adipose tissue weight, in a mouse model of obesity induced by a high-fat diet. It decreases blood glucose levels, food intake, and gastric emptying in non-obese and *ob/ob* mice when administered at a dose of 3 mg/kg. [1]

References:

[1]. Fang, X., Du, Z., Duan, C., et al.Beinaglutide shows significantly beneficial effects in diabetes/obesity-induced nonalcoholic steatohepatitis in ob/ob mouse modelLife Sci.270:118966(2021).
[2]. Zhang, F., Chen, Z., Wu, D., et al.Recombinant human GLP-1 beinaglutide regulates lipid metabolism of adipose tissues in diet-induced obese miceiScience24(12)103382(2021).

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