

Product Data Sheet

Product Name: Taspoglutide (acetate)

Cat. No.: GC92118

Chemical Properties

Cas. No. 1022150-16-8

Chemical Name 8-(2-methylalanine)-35-(2-methylalanine)-36-L-argininamide-7-36-glucagon-like peptide I (human), acetate

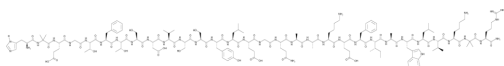
SMILES N=C(N)NCCC[C@@H](C(N)=O)NC(C(C)(C)NC([C@H](CCCCN)NC([C@H](C(C)C)NC([C@H](CC(C)C)NC([C@@H](NC([C@H](C)NC([C@H]([C@@H](C)CC)NC([C@@H](N C([C@H](CCC(O)=O)NC([C@H](CCCCN)NC([C@H](C)NC([C@H](C)NC([C@H](CCC(N)=O)NC(CNC([C@H](CCC(O)=O)NC([C@H](CC(C)C)NC([C@@H](NC([C@H](CO)N C([C@H](CO)NC([C@H](C(C)C)NC([C@H](CC(O)=O)NC([C@H](CO)NC([C@H]([C@H])(O)C)NC([C@@H](NC([C@H]([C@H](O)C)NC(CNC([C@H](CCC(O)=O)NC(C(C)(C)N C([C@@H](N)CC1=CN=CN1)=O)=O)=O)=O)=O)CC2=CC=CC=C2)=O)=O)=O)=O)=O)=O)CC3=CC=C(C=C3)O)=O)=O)=O)=O)=O)=O)=O)CC4=CC=CC=C4)=O)= O)=O)CC5=CNC6=CC=CC=C56)=O)=O)=O)=O)=O.O.CC(O)=O

Formula $C_{152}H_{232}N_{40}O_{45} \cdot XC_2H_4O_2$ M.Wt 3339.7

Solubility PBS (pH 7.2): Slightly soluble: 0.1-1 mg/ml Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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 

Background

Taspoglutide is an agonist of the glucagon-like peptide 1 receptor (GLP-1R; $K_i = 1.1$ nM for the human receptor).¹ It induces cAMP accumulation in CHO-K1 cells expressing human GLP-1R ($EC_{50} = 0.06$ nM). Taspoglutide (1 mg/animal per week) decreases blood levels of glucose and increases blood levels of insulin in an oral glucose tolerance test in Zucker diabetic obese rats. It reduces blood

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levels of gastric inhibitory polypeptide (GIP), plasma levels of triglycerides, and body weight in the same model.²

References:

- [1]. Dong, J.Z., Shen, Y., Zhang, J., et al. Discovery and characterization of taspoglutide, a novel analogue of human glucagon-like peptide-1, engineered for sustained therapeutic activity in type 2 diabetes. *Diabetes Obes. Metab.* 13(1)19-25(2011).
- [2]. Sebokova, E., Bénardeau, A., Sprecher, U., et al. Taspoglutide, a novel human once-weekly analogue of glucagon-like peptide-1, improves glucose homeostasis and body weight in the Zucker diabetic fatty rat. *Diabetes Obes. Metab.* 12(8)674-682(2010).

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