

Product Data Sheet

Product Name: Semaglutide Side Chain

Cat. No.: GC91493

Chemical Properties

Cas. No. 1118767-16-0

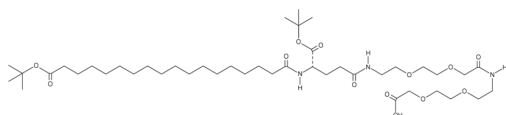
Formula $C_{43}H_{79}N_3O_{13}$ M.Wt 846.1

Solubility Ethanol: 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



Background

Semaglutide side chain is a synthetic intermediate.^[1] It has been used as an intermediate in the synthesis of the glucagon-like peptide 1 receptor (GLP-1R) agonist semaglutide, as well as a lipid side chain to increase the proteolysis-resistance of insulin derivatives for use *in vivo*.^{[1],[2]}

References:

[1].Guryanov, I., Orlandin, A., De Paola, I., et al.Copper(II) lysinate and pseudoproline assistance in the convergent synthesis of the GLP 1 receptor agonists liraglutide and semaglutideOrg. Process Res. Dev.25(7)1598-1611(2021).

[2].Kjeldsen, T.B., Hubálek, F., Tagmose, T.M., et al.Engineering of orally available, ultralong-acting insulin analogues: Discovery of OI338 and OI320.J. Med. Chem.64(1)616-628(2021).

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

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