

Product Data Sheet

Product Name: MM 419447

Cat. No.: GC63294

Chemical Properties

Cas. No. 1092457-78-7

Formula $C_{50}H_{70}N_{14}O_{19}S_6$ M.Wt 1363.56

Solubility DMSO : 100 mg/mL (73.34 mM; Need ultrasonic) Storage -20°C, away from moisture

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

CCEYYCCNPACTGC (Disulfide bridge: Cys₁-Cys₆; Cys₂-Cys₁₀; Cys₅-Cys₁₃)

Background

MM 419447, a linacotide metabolite, is a guanylate cyclase-C agonist. MM 419447 has the potential for the research of the irritable bowel syndrome with constipation (IBS-C)[1].

MM 419447 exhibits high-affinity binding to T84 cells, resulting in a significant, concentration-dependent accumulation of intracellular cyclic guanosine-3',5'-monophosphate (cGMP)[1].

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

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MM 419447 (10 mg/kg; p.o.) treatment shows the C_{max}, AUC₀₋₆ and t_{1/2} values of 27 ng/mL, ≤ 29.7 ng h/mL and 0.33 hours, respectively[1]

[1]. Busby RW, et al. Pharmacologic properties, metabolism, and disposition of linaclotide, a novel therapeutic peptide approved for the treatment of irritable bowel syndrome with constipation and chronic idiopathic constipation. J Pharmacol Exp Ther. 2013;344(1):196-206.

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