

Product Data Sheet

Product Name: Commendamide

Cat. No.: GC43301

Chemical Properties

Cas. No. 193825-78-4

SMILES O=C(O)CNC(CC(O)CCCCCCCCCCCCC)=O

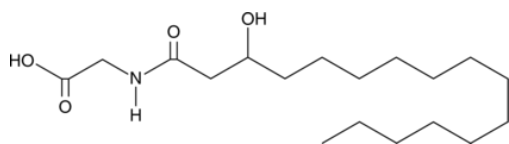
Formula C₁₈H₃₅NO₄ M.Wt 329.5

Solubility DMF: 25 mg/ml, DMF:PBS(pH7.2) (1:2): 0.3mg/ml, DMSO: 20 mg/ml, Ethanol: 15 mg/ml
Storage Store at -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

Commendamide is a natural bacterial product that was discovered in a screen for commensal bacteria effector genes (Cbegs). Cbeg12 is a bacterial effector gene that encodes for its production. Commendamide is structurally similar to long-chain N-acyl-amides, which commonly signal, in mammals, through G protein-coupled receptors. Commendamide activates GPR132 (also known as G2A) with an EC₅₀ value of 11.8 μM.

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

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