

Product Data Sheet

Product Name: D-3
 Cat. No.: GC50510

Chemical Properties

Cas. No. 1967815-98-0

SMILES OC(=O)[C@@H](CC1=CC=C(OP(O)(O)=O)C=C1)NC(=O)[C@@H](CC1=CC=CC=C1)NC(=O)[C@@H](CC1=CC=CC=C1)NC(=O)[C@@H](CC1=CC=CC=C1)NC(=O)CC1=CC2=CC=CC=C2C=C1

Formula C₄₈H₄₇N₄O₁₀P M.Wt 870.88

Solubility Soluble in DMSO Storage Store at -20°C

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

Structure 2-NAc-D-Phe-D-Phe-D-Phe-D-Tyr(PO₃H₂)

Background

Selective PSC eliminating agent. Induces toxicity in cultured iPSCs and ESCs after 1 h of incubation, via an alkaline phosphatase-dependent mechanism. Only eliminates iPSCs in co-cultures with iPSC-derived neurons, cardiomyocytes or hepatocytes. Treated iPSC-derived cardiomyocytes transplanted into mice exhibit no residual teratoma formation.

Kuang et al (2017) Efficient, selective removal of human pluripotent stem cells via ecto-alkaline phosphatase-mediated aggregation of synthetic peptides. Cell Chem.Biol. 24 685 PMID:28529132

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

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