

Product Data Sheet

Product Name: (2S)-OMPT

Cat. No.: GC41692

Chemical Properties

Cas. No. 1217471-69-6

SMILES O=C(OC[C@H](OC)COP(=O)(O)=S)CCCCCCC/C=C\CCCCCCCC

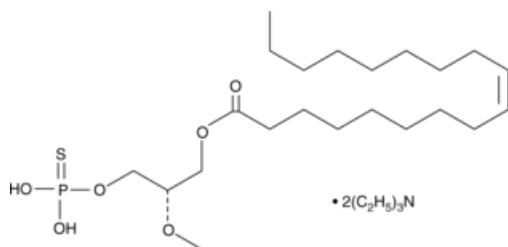
Formula $C_{22}H_{43}O_6PS \cdot 2(C_2H_5)_3N$ M.Wt 669

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, PBS (pH 7.2): 10 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

Lysophosphatidic acid (LPA) is a potent lipid mediator that elicits its effect through four distinct receptors - LPA1/EDG-2, LPA2/EDG-4, LPA3/EDG-7 and LPA4/GPR23. OMPT is a selective agonist of the lysophosphatidic acid 3 (LPA3) receptor. It exhibits EC₅₀ values of 68 nM and >6.8 μM for calcium mobilization in LPA1 and LPA2-expressing Sf9 cells, respectively. The (2S)-OMPT enantiomer is 5- to 20-fold more active than (2R)-OMPT in calcium release assays in both LPA3-transfected Sf9 and rat hepatoma Rh7777 cells.

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

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