

W146

Chemical Properties

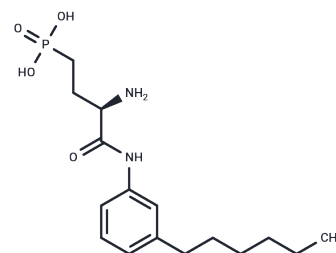
CAS No. : 909725-61-7

Formula: C₁₆H₂₇N₂O₄P

Molecular Weight: 342.37

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	W146 is a selective sphingosine-1-phosphate receptor 1 (S1PR1) antagonist (EC ₅₀ : 398 nM).
Targets(IC ₅₀)	Others
In vitro	W146 is an antagonist of S1PR1 (K _i of ~70-80 nM)[1]. The S1P attenuated TUNEL labeling index of EPCs is significantly increased by pretreatment with W146 compared with the S1P treated group. Furthermore, pretreatment with W146 significantly increases activated cleaved caspase-3 levels. The reduced EPCs apoptosis which induced by S1P is completely abolished after treatment with W146[2].
In vivo	In mice, Injections of W146, W140, JTE013, or Cay10444 do not alter the basal WBC count . when mice are pretreated with W146, it is found that a significant increase in KSL-HSPC mobilization , compared to that in mice pretreated with dextran followed by AMD3100 administration. Moreover, pre-treatment of W146 shows approximately 8-fold increase of KSL-HSPC mobilization, measured by the CFU-G/M colony forming assays, compared to that in mice treated with AMD3100 alone[3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9208 mL	14.6041 mL	29.2082 mL
5 mM	0.5842 mL	2.9208 mL	5.8416 mL
10 mM	0.2921 mL	1.4604 mL	2.9208 mL
50 mM	0.0584 mL	0.2921 mL	0.5842 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

M Germana Sanna, et al. Enhancement of capillary leakage and restoration of lymphocyte egress by a chiral S1P1 antagonist in vivo. Nat Chem Biol. 2006 Aug;2(8):434-41. Epub 2006 Jul 9.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481