

MB-07344

Chemical Properties

CAS No. : 852947-39-8

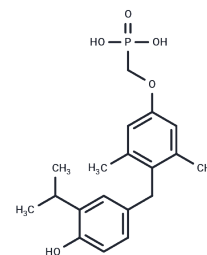
Formula: C₁₉H₂₅O₅P

Molecular Weight: 364.37

Store at low temperature

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

Actual storage temperature shall be subject to the COA.



Biological Description

Description	MB-07344 is a selective THR-β (thyroid hormone receptor β) agonist with a Ki of 2.17 nM, capable of reducing plasma total cholesterol (TPC) in both combination and monotherapy settings.
Targets(IC50)	Thyroid hormone receptor(THR)
In vivo	In normal rabbits, MB-07344 (0.05 mg/kg; intravenous injection; 3 times per week for 3 weeks) showed synergistic and additive effects when used in combination with atorvastatin [1].

Solubility Information

Solubility	DMSO: 200 mg/mL (548.89 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 5 mg/mL (13.72 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7445 mL	13.7223 mL	27.4446 mL
5 mM	0.5489 mL	2.7445 mL	5.4889 mL
10 mM	0.2744 mL	1.3722 mL	2.7445 mL
50 mM	0.0549 mL	0.2744 mL	0.5489 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ito BR, et al. Thyroid hormone beta receptor activation has additive cholesterol lowering activity in combination with atorvastatin in rabbits, dogs and monkeys. Br J Pharmacol. 2009 Feb;156(3):454-65.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481