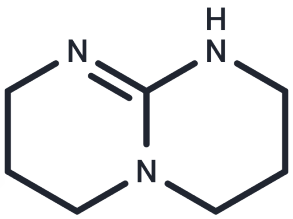
Data Sheet (Cat.No.T37100)

TargetMol

1,5,7-Triazabicyclo[4.4.0]dec-5-ene

Chemical Properties



CAS No. : 5807-14-7

Formula: C7H13N3

Molecular Weight: 139.2

Storage: Store under nitrogen,Store at low temperature
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	1,5,7-Triazabicyclo[4.4.0]dec-5-ene (Triazabicyclodecene) is an isotope exchange catalyst in CDCl, facilitating acyl transfer in cyclic esters and ring-opening polymerization.
Targets(IC50)	Others

Solubility Information

Solubility	PBS (pH 7.2): 1 mg/mL (7.18 mM),Sonication is recommended. DMSO: 10 mg/mL (71.84 mM),Sonication is recommended. Ethanol: 10 mg/mL (71.84 mM),Sonication is recommended. DMF: 10 mg/mL (71.84 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: 1 mg/mL (7.18 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.1839 mL	35.9195 mL	71.8391 mL
5 mM	1.4368 mL	7.1839 mL	14.3678 mL
10 mM	0.7184 mL	3.592 mL	7.1839 mL
50 mM	0.1437 mL	0.7184 mL	1.4368 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

Sabot C, et al. Triazabicyclodecene: an effective isotope exchange catalyst in CDCl(3). J Org Chem. 2007 Jun 22;72 (13):5001-4.
Asafo-Adjei TA, et al. Tuning Properties of Poly(ethylene glycol)-block-poly(simvastatin) Copolymers Synthesized via Triazabicyclodecene. React Funct Polym. 2017 Oct;119:37-46.

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