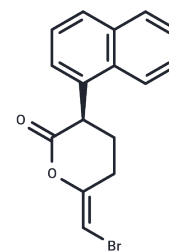


(R)-Bromo-enol lactone (5 mg/ml solution in methyl acetate)

Chemical Properties

CAS No. :	478288-90-3
Formula:	C ₁₆ H ₁₃ BrO ₂
Molecular Weight:	317.18
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	(R)-Bromo-enol lactone is an irreversible, chiral and mechanism-based iPLA ₂ γ inhibitor, with an IC ₅₀ of approximately 0.6 μM against human recombinant iPLA ₂ γ.
Targets(IC ₅₀)	Phospholipase

Solubility Information

Solubility	PBS (pH 7.2): 0.05 mg/mL (0.16 mM), Sonication is recommended. DMSO: 12.5 mg/mL (39.41 mM), Sonication is recommended. Ethanol: 2.5 mg/mL (7.88 mM), Sonication is recommended. DMF: 25 mg/mL (78.82 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1528 mL	15.7639 mL	31.5278 mL
5 mM	0.6306 mL	3.1528 mL	6.3056 mL
10 mM	0.3153 mL	1.5764 mL	3.1528 mL
50 mM	0.0631 mL	0.3153 mL	0.6306 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

Jenkins CM, et al. Identification of calcium-independent phospholipase A₂ (iPLA₂) beta, and not iPLA₂gamma, as the mediator of arginine vasopressin-induced arachidonic acid release in A-10 smooth muscle cells. Enantioselective mechanism-based discriminati

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