

BrP-LPA sodium

Chemical Properties

CAS No. :	944265-88-7
Formula:	C ₂₀ H ₄₁ BrNaO ₆ P
Molecular Weight:	511.41
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	BrP-LPA sodium is a broad-spectrum antagonist of lysophosphatidic acid (LPA), demonstrating antagonistic activity towards LPA1 (IC ₅₀ = 4520 nM), LPA2 (IC ₅₀ = 468 nM), LPA3, and LPA4. Additionally, BrP-LPA sodium exhibits partial agonistic activity at LPA5 with an EC ₅₀ of 1282 nM. It also acts as an ATX inhibitor and effectively inhibits the migration and invasion of breast cancer cells. In mouse xenograft models of breast cancer, BrP-LPA sodium induces tumor regression and anti-angiogenic effects. This compound is applicable for breast cancer research.
Targets(IC ₅₀)	LPL Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9554 mL	9.7769 mL	19.5538 mL
5 mM	0.3911 mL	1.9554 mL	3.9108 mL
10 mM	0.1955 mL	0.9777 mL	1.9554 mL
50 mM	0.0391 mL	0.1955 mL	0.3911 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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