

## Amgen-23

## Chemical Properties

CAS No. : 1448706-15-7

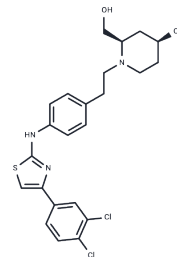
Formula: C<sub>23</sub>H<sub>25</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>2</sub>S

Molecular Weight: 478.44

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	Amgen-23 is a selective and highly potent sphingosine kinase 1 (SPHK1) inhibitor that inhibits SPHK2 and can be used in anticancer research.
Targets(IC50)	S1P Receptor
In vitro	Amgen-23 can be used for anticancer research. Amgen-23 is a potent sphingosine kinases (SPHK) inhibitor, with SPHK1 IC <sub>50</sub> = 20 nM and SPHK2 IC <sub>50</sub> = 1.6 μM. [1]

## Solubility Information

Solubility	DMSO: 80 mg/mL (167.21 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: 3.3 mg/mL (6.9 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	2.0901 mL	10.4506 mL	20.9013 mL
5 mM	0.418 mL	2.0901 mL	4.1803 mL
10 mM	0.209 mL	1.0451 mL	2.0901 mL
50 mM	0.0418 mL	0.209 mL	0.418 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

Gustin DJ, et al. Structure guided design of a series of sphingosine kinase (SphK) inhibitors. Bioorg Med Chem Lett. 2013 Aug 15;23(16):4608-16.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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