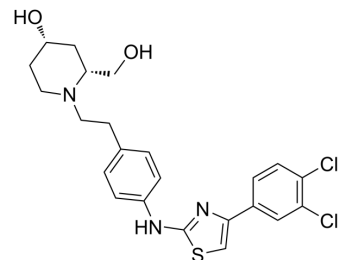


Amgen-23

| | | | |
|--------------------|---|-------|----------|
| Cat. No.: | HY-147282 | | |
| CAS No.: | 1448706-15-7 | | |
| Molecular Formula: | C ₂₃ H ₂₅ Cl ₂ N ₃ O ₂ S | | |
| Molecular Weight: | 478.43 | | |
| Target: | SphK | | |
| Pathway: | Immunology/Inflammation | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

| | | | | |
|----------|--|--------------------------|-----------|------------|
| In Vitro | DMSO : 100 mg/mL (209.02 mM; Need ultrasonic) | | | |
| | | Solvent Concentration | Mass | |
| | | | 1 mg | 5 mg |
| | Preparing Stock Solutions | 1 mM | 2.0902 mL | 10.4508 mL |
| | | 5 mM | 2.0902 mL | 4.1803 mL |
| | | 10 mM | 0.2090 mL | 1.0451 mL |
| | Please refer to the solubility information to select the appropriate solvent. | | | |
| In Vivo | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.23 mM); Clear solution | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.23 mM); Suspended solution; Need ultrasonic | | | |
| | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.23 mM); Clear solution | | | |

BIOLOGICAL ACTIVITY

| | | |
|---------------------------|--|-------------------------------------|
| Description | Amgen-23 (compound 23) is a potent sphingosine kinases (SPHK) inhibitor with IC ₅₀ values of 20 nM and 1.6 μM for SPHK1 and SPHK2, respectively. Amgen-23 can be used for researching anticancer ^[1] . | |
| IC ₅₀ & Target | SphK1 20 nM (IC ₅₀) | SphK2 1.6 μM (IC ₅₀) |

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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