SGI-7079

Cat. No.: HY-12964

CAS No.: 1239875-86-5

Molecular Formula: $C_{26}H_{26}FN_7$

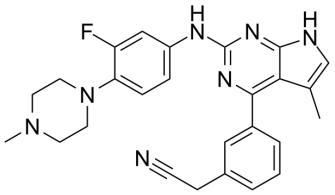
Molecular Weight: 455.53

Target: TAM Receptor

Pathway: Protein Tyrosine Kinase/RTK

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 34 mg/mL (74.64 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.1952 mL	10.9762 mL	21.9525 mL
5 mM	0.4390 mL	2.1952 mL	4.3905 mL
10 mM	0.2195 mL	1.0976 mL	2.1952 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: ≥ 2.17 mg/mL (4.76 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.17 mg/mL (4.76 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SGI-7079 is a potent and ATP-competitive Axl inhibitor, significantly inhibits the proliferation of SUM149 or KPL-4 cells with an IC_{50} of 0.43 or 0.16 μM, respectively.

CUSTOMER VALIDATION

- Pharmacol Res. 2023 Jan 18;188:106668.

- Antimicrob Agents Chemother. 2023 Feb 28;e0148722.
- Research Square Preprint. 2020 Dec.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Wang X, et al. TIG1 promotes the development and progression of inflammatory breast cancer through activation of Axl kinase. Cancer Res. 2013 Nov 1;73(21):6516-25.

[2]. Byers LA, et al. An epithelial-mesenchymal transition gene signature predicts resistance to EGFR and PI3K inhibitors and identifies Axl as a therapeutic target for overcoming EGFR inhibitor resistance. Clin Cancer Res. 2013 Jan 1;19(1):279-90.

[3]. Chenjing Zhu, et al. AXL receptor tyrosine kinase as a promising anti-cancer approach: functions, molecular mechanisms and clinical applications. Mol Cancer. 2019 Nov 4;18(1):153.

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