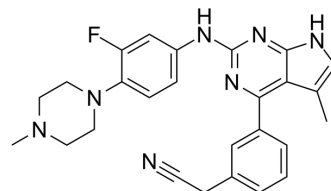


SGI-7079

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.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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

- 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
- 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 IC₅₀ 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.

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

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