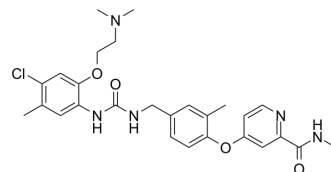


DDR2-IN-1

Cat. No.:	HY-112545		
CAS No.:	1573053-23-2		
Molecular Formula:	C ₂₇ H ₃₂ ClN ₅ O ₄		
Molecular Weight:	526.03		
Target:	Discoidin Domain Receptor		
Pathway:	Protein Tyrosine Kinase/RTK		
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 : 250 mg/mL (475.26 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.9010 mL	9.5052 mL	19.0103 mL
	5 mM	0.3802 mL	1.9010 mL	3.8021 mL
	10 mM	0.1901 mL	0.9505 mL	1.9010 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: ≥ 2.08 mg/mL (3.95 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.08 mg/mL (3.95 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

DDR2-IN-1 is potent DDR2 inhibitor with an IC₅₀ of 26 nM. DDR2-IN-1, compound 129, can be used for osteoarthritis research [1].

IC₅₀ & Target

IC₅₀: 26 nM (DDR2)^[1]

CUSTOMER VALIDATION

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- Research Square Print. September 27th, 2022.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Margarita Wucherer-Plietker, et al. Inhibiteurs de ddr2 pour le traitement de l'arthrose. Patent WO2014032755A2.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA