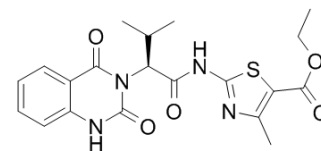


Kif15-IN-1

Cat. No.:	HY-15948		
CAS No.:	672926-32-8		
Molecular Formula:	C ₂₀ H ₂₂ N ₄ O ₅ S		
Molecular Weight:	430.48		
Target:	Kinesin		
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton		
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 (232.30 mM)
 * "≥" means soluble, but saturation unknown.

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.3230 mL	11.6149 mL	23.2299 mL
5 mM	0.4646 mL	2.3230 mL	4.6460 mL
10 mM	0.2323 mL	1.1615 mL	2.3230 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: ≥ 2.5 mg/mL (5.81 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (5.81 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Kif15-IN-1 is an inhibitor of the mitotic Kinesin family member 15 (Kif15), and is used for the research of cellular proliferative diseases.

IC₅₀ & Target

KIF15

In Vitro

Kif15-IN-1 (Compound 10) is an inhibitor of the mitotic kinesin Hs Kif15, with the potential activities against cellular proliferative diseases such as cancer, hyperplasias, restenosis, cardiac hypertrophy, immune disorders and inflammation^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Preparation of quinazolinones as Kif15 kinesin inhibitors for treating cellular proliferative disorders. Pat. Appl. Publ. (2004), US 20040053948 A1 20040318.

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

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