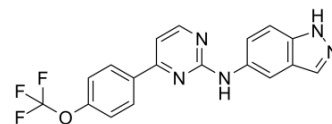


ALLO-2

Cat. No.:	HY-117407		
CAS No.:	1357350-60-7		
Molecular Formula:	C ₁₈ H ₁₂ F ₃ N ₅ O		
Molecular Weight:	371.32		
Target:	Smo		
Pathway:	Stem Cell/Wnt		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (336.64 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.6931 mL	13.4655 mL	26.9309 mL
	5 mM	0.5386 mL	2.6931 mL	5.3862 mL
	10 mM	0.2693 mL	1.3465 mL	2.6931 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 (5.60 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**
Solubility: ≥ 2.08 mg/mL (5.60 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ALLO-2 is a potent drug-resistant **Smoothened (Smo)** mutant antagonist that inhibits Smo agonist Hh-Ag1.5-induced Luciferase expression in TM3-Gli-Luc cells with IC₅₀ of 6 nM^[1].

IC₅₀ & Target

IC₅₀: Smo^[1].

REFERENCES

[1]. Tao H, et al. Small molecule antagonists in distinct binding modes inhibit drug-resistant mutant of smoothened. Chem Biol. 2011 Apr 22;18(4):432-7.

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

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