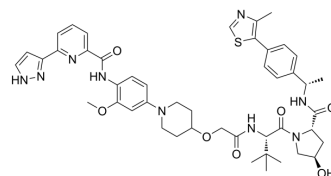


JNJ-1013

Cat. No.:	HY-153188
CAS No.:	2597343-08-1
Molecular Formula:	C ₄₆ H ₅₅ N ₉ O ₇ S
Molecular Weight:	878.05
Target:	Apoptosis; IRAK
Pathway:	Apoptosis; Immunology/Inflammation
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (28.47 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	1.1389 mL	5.6944 mL	11.3889 mL	
5 mM	0.2278 mL	1.1389 mL	2.2778 mL	
10 mM	0.1139 mL	0.5694 mL	1.1389 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

JNJ-1013 is a potent and selective IRAK1 degrader with an IC₅₀s of 72, 443, 1071 nM for IRAK1, IRAK4, VHL FP respectively. JNJ-1013 induces [Apoptosis](#) and increases the expression of cleaved PARP. JNJ-1013 decreases the expression IRAK1, p-IKβ, pSTAT3(Tyr705)^[1].

IC₅₀ & Target

IRAK1 72 nM (IC ₅₀)	IRAK4 443 nM (IC ₅₀)	VHL FP 1071 nM (IC ₅₀)
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In Vitro

JNJ-1013 (Degradar-3; 1.5-10000 nM; 24 h) dose-dependently degrades IRAK1 protein with an DC₅₀ value of 3 nM.^[1] JNJ-1013 (1 μM) decreased the expression of MG-132 (HY-13259) styummed IRAK1 in a dose-dependent manner^[1]. JNJ-1013 (0.01, 0.03, 0.1, 0.3, 1 μM; 24 h) decreases the expression IRAK1, p-IKβ, pSTAT3(Tyr705) and increases the expression of cleaved PARP^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis^[1]

Cell Line:	HEK293T cells
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Concentration:	1.5-10000 nM
Incubation Time:	24 h
Result:	Decreased the expression of IRAK1 in a dose-dependent manner.

REFERENCES

[1]. Fu L, et al. Discovery of Highly Potent and Selective IRAK1 Degraders to Probe Scaffolding Functions of IRAK1 in ABC DLBCL. J Med Chem. 2021 Aug 12;64(15):10878-10889.

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

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