Proteins

Product Data Sheet

BAP1-IN-1

Cat. No.: HY-W327122 CAS No.: 353495-21-3 Molecular Formula: $C_{18}H_{16}N_{2}O_{2}$ Molecular Weight: 292.33 Target: Others Pathway: Others

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

In Vitro

DMSO: 50 mg/mL (171.04 mM; Need ultrasonic)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.4208 mL	17.1040 mL	34.2079 mL
Stock Solutions	5 mM	0.6842 mL	3.4208 mL	6.8416 mL
	10 mM	0.3421 mL	1.7104 mL	3.4208 mL

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

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Description	BAP1-IN-1 (Compound 8	B) is a BRCA1 associated protein 1 (BAP1) catalytic activity inhibitor with an IC $_{50}$ of 0.1-1 μ M $^{[1]}$.
IC ₅₀ & Target	IC50: 0.1-1 μM (BAP1) ^[1]	
In Vitro	BAP1-IN-1 (0.1 μM; 24 h) cells, demonstrating tha BAP1-IN-1 (0-10 μM; 72 l	B) (1 μ M; 30 min) specifically inhibits BAP1 not just in vitro but also within the cellular context ^[1] . Is significantly alters 240 genes in BAP1-WT cells, whereas only 33 transcripts are changed in BAP1-KO at the gene expression changes mainly depend on the presence of BAP1 protein ^[1] . In this selectively inhibits cells with ASXL1 GOF mutations ^[1] . Intly confirmed the accuracy of these methods. They are for reference only.
	Cell Line:	CAL51 cells
	Concentration:	1 μΜ
	Incubation Time:	30 min

	Result:	Remarkably inhibited BAP1 catalytic activity.
	Cell Viability Assay ^[1]	
	Cell Line:	THP1, MOML13, K562, THP1-ASXL1-WT and THP1-ASXL1-Y591fs cells
	Concentration:	0, 0.1, 0.3, 1, 3 and 10 μM
	Incubation Time:	72 h
	Result:	K562 cells (ASXL1-Y591*) were significantly more sensitive to the treatment. Cells with ASXL1fs mutations were ten times more sensitive to the treatment.
Vivo	survival in $mice^{[1]}$.	3) (50 mg/kg/d; i.p.; 4 weeks) delays the progression of ASXL1-mutant leukemia and improves only confirmed the accuracy of these methods. They are for reference only.
	Animal Model:	NSGS mice, K562 (ASXL1-WT/Y591 *) xenograft model and patient-derived tumor cells (ASXL1-WT/Q588 *) model $^{[1]}$
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	Animal Model:	(ASXL1-WT/Q588 *) model $^{[1]}$

REFERENCES

[1]. Wang L, et al. Epigenetic targeted therapy of stabilized BAP1 in ASXL1 gain-of-function mutated leukemia. Nat Cancer. 2021 May;2(5):515-526.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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