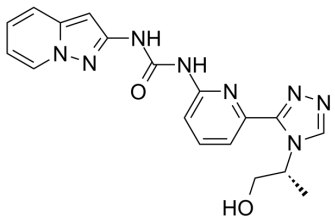
ASK1-IN-3

Cat. No.:	HY-146729
CAS No.:	2426705-19-1
Molecular Formula:	$C_{18}H_{18}N_8O_2$
Molecular Weight:	378.39
Target:	MAP3K; Apoptosis
Pathway:	MAPK/ERK Pathway; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ASK1-IN-3 is a potent and selective ASK1 kinase inhibitor with IC_{50} of 33.8 nM, as well as inhibits several cell cycle regulating kinases. ASK1-IN-3 has strong HepG2 cancer cells apoptosis induction and potent cell cycle arrest activities[1].
IC_{50} & Target	IC_{50}: 33.8 nM (ASK1)[1]
In Vitro	ASK1-IN-3 (compound 14l) (10, 20 and 50 μM; 48 hours) induces PARP cleavage in a dose dependent manner, which indicates the induction of HepG2 cells apoptosis[1]. ASK1-IN-3 (1-16 μM; 24 hours) significantly arrests cycle progression at G1 phase[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Apoptosis Analysis

Cell Line:	HepG2[1]
Concentration:	10, 20 and 50 μM
Incubation Time:	48 hours
Result:	Induced PARP cleavage in a dose dependent manner.

Cell Cycle Analysis

Cell Line:	HepG2[1]
Concentration:	1, 2, 4, 8, and 16 μM
Incubation Time:	24 hours
Result:	Significantly arrested cycle progression at G1 phase.

REFERENCES

[1]. Zhang S, Huang C, Lyu X, et al. Discovery of a 2-pyridinyl urea-containing compound YD57 as a potent inhibitor of apoptosis signal-regulating kinase 1 (ASK1). Eur J Med Chem. 2020;195:112277.

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

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