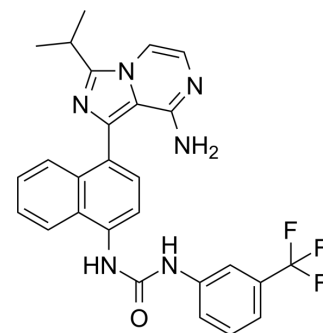


IRE1α kinase-IN-2

Cat. No.:	HY-18509		
CAS No.:	1414938-21-8		
Molecular Formula:	C ₂₇ H ₂₃ F ₃ N ₆ O		
Molecular Weight:	504.51		
Target:	IRE1		
Pathway:	Cell Cycle/DNA Damage		
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 (198.21 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.9821 mL	9.9106 mL	19.8212 mL
5 mM	0.3964 mL	1.9821 mL	3.9642 mL
10 mM	0.1982 mL	0.9911 mL	1.9821 mL

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

BIOLOGICAL ACTIVITY

Description

IRE1α kinase-IN-2 is a potent IRE1α kinase inhibitor, with an EC₅₀ of 0.82 μM. IRE1α kinase-IN-2 inhibits IRE1α kinase autophosphorylation (IC₅₀=3.12 μM). IRE1α kinase-IN-2 inhibits XBP1 mRNA splicing in the WT cell lines^[1].

In Vitro

IRE1α kinase-IN-2 (compound 3) inhibits XBP1 mRNA splicing, even during ER stress^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wang L, Perera BG, Hari SB, et al. Divergent allosteric control of the IRE1α endoribonuclease using kinase inhibitors. Nat Chem Biol. 2012;8(12):982-989.

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

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