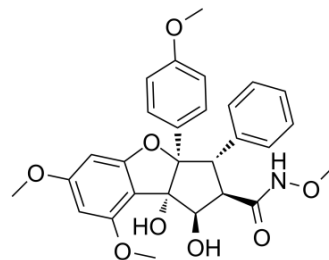


CR-1-31-B

Cat. No.:	HY-136453		
CAS No.:	1352914-52-3		
Molecular Formula:	C ₂₈ H ₂₉ NO ₈		
Molecular Weight:	507.53		
Target:	Eukaryotic Initiation Factor (eIF)		
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 : 300 mg/mL (591.10 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.9703 mL	9.8516 mL	19.7033 mL
5 mM	0.3941 mL	1.9703 mL	3.9407 mL
10 mM	0.1970 mL	0.9852 mL	1.9703 mL

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

BIOLOGICAL ACTIVITY

Description

CR-1-31-B is a potent eIF4A RNA helicase inhibitor. CR-1-31-B blocks MUC1-C translation in response to growth factor stimulation in breast cancer cells^[1].

In Vitro

CR-1-31-B (100 nM; 24 hours) inhibits MUC1-C translation in MCF-10A cells^[1].
 CR-1-31-B (10 and 100 nM) decreases MUC1-C abundance in MDA-MB-468 breast cancer cells^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.
 Western Blot Analysis^[1]

Cell Line:	MCF-10A cells (EGF/HRG stimulated)
Concentration:	100 nM
Incubation Time:	24 hours
Result:	EGF-stimulated MCF-10A cells was associated with a dose-dependent decrease in MUC1-C abundance; Blocked HRG-induced increases in MUC1-C abundance.

REFERENCES

[1]. Jin C, Rajabi H, Rodrigo CM, Porco JA Jr, Kufe D. Targeting the eIF4A RNA helicase blocks translation of the MUC1-C oncoprotein. *Oncogene*. 2013;32(17):2179-2188.

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

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