$HIF-1/2\alpha$ -IN-2

BIOLOGICAL ACTIVITY

Description

IC₅₀ & Target

In Vitro

Cat. No.:	HY-151344	
CAS No.:	862974-22-9	
Molecular Formula:	C ₁₆ H ₁₁ FN ₄ O ₂ S	F
Molecular Weight:	342	N O
Target:	HIF/HIF Prolyl-Hydroxylase	
Pathway:	Metabolic Enzyme/Protease	s
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

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C, sealed storage, away from n solvent : -80°C, 6 months; -2 d light)	moisture and light 0°C, 1 month (sealed storage, away from moisture
Υ	
HIF-1/2 α -IN-2 is an inhibitor targeting Iron Sulfur Cluster	of HIF-1/2 α . HIF-1/2 α -IN-2 decrease HIF-1/2 α levels and induces iron starvation response by Assembly 2 (ISCA2) ^[1] .
Iron Sulfur Cluster Assembly	2 (ISCA2), HIF-1/2α ^[1]
HIF-1/2 α -IN-2 (compound # in VEGFA and POU5F1 (HIF-2 HIF-1/2 α -IN-2 (0-100 μ M, 24 luciferase reporter with an I HIF-1/2 α -IN-2 (0, 10, 50 μ M) to induce iron and metals ac HIF-1/2 α -IN-2 (0-100 μ M; 24 MCE has not independently	L) (0-25 μM; 24 h) decreases HIF-2α translation instead of transcription, with a downward trend tα target genes) transcription and insignificant effect on EPAS1 (HIF-2α) ^[1] . h) inhibits the production of luciferase driven by the HIF-2α Iron-Responsive Element (IRE) C_{50} value of 3.9 μM, to block IRE-dependent translation of HIF-2α ^[1] . protects ISCA2 from Pronase-mediated (4 μg/mL) degradation, and (1.5 μM; 24 h) targets ISCA2 ccumulation in normoxia 786-0 cells ^[1] . h) results ISCA2 inhibition and promotes cell death via ferroptosis ^[1] . confirmed the accuracy of these methods. They are for reference only.
Western Blot Analysis ^[1]	
Cell Line:	Normoxia 786-0 cells (20%O ₂) and hypoxic ACHN cells (or 1%O ₂ for final 24 h to induce HIF

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Concentration:	0, 1, 5, 10, 25 μΜ
Incubation Time:	24 hours
Result:	Decreased the protein level of HIF-2α, FTH1, ISCA2, and increased IRP2 protein level at high concentrations over 10 μM in normoxia 786-0 cells. Dcreased the HIF-2α and FTH1 levels at 1 μM in hypoxic ACHN cells.

Cell Viability Assay^[1]

Cell Line:	Normoxia 786-0 cells
Concentration:	0-100 μΜ
Incubation Time:	24 hours



Product Data Sheet

Result:

REFERENCES

[1]. Green YS, et al. ISCA2 inhibition decreases HIF and induces ferroptosis in clear cell renal carcinoma. Oncogene. 2022 Sep 12.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA