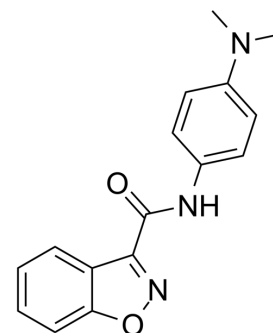


HIF-1 α -IN-5

Cat. No.:	HY-151466
CAS No.:	2826221-10-5
Molecular Formula:	C ₁₆ H ₁₅ N ₃ O ₂
Molecular Weight:	281.31
Target:	HIF/HIF Prolyl-Hydroxylase; Monoamine Oxidase
Pathway:	Metabolic Enzyme/Protease; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HIF-1 α -IN-5 is a HIF-1 α inhibitor with an IC ₅₀ value of 24 nM (in HEK293T cell). HIF-1 α -IN-5 also inhibits MAO-A activity. HIF-1 α -IN-5 downregulates VEGF and PDK1 mRNA expressions under hypoxia. HIF-1 α -IN-5 can be used in the research of cancer ^[1] .								
IC₅₀ & Target	HIF-1 α , MAO-A ^[1]								
In Vitro	<p>HIF-1α-IN-5 (compound 15, 24 h) shows inhibitory effects against HIF-1α transcription in HEK293T cells, with an IC₅₀ value of 24 nM^[1].</p> <p>HIF-1α-IN-5 (0-50 μM, 24 h) downregulates VEGF and PDK1 mRNA expressions under hypoxia in HEK293T cells^[1].</p> <p>HIF-1α-IN-5 (10 μM) inhibits MAO-A activity activity by 80.64%, and ADORA2A by 43.95%^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>RT-PCR^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HEK293T cells under hypoxia</td> </tr> <tr> <td>Concentration:</td> <td>0-50 μM approximately</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Dose-dependently reduces VEGF and PDK1 mRNA expression.</td> </tr> </table>	Cell Line:	HEK293T cells under hypoxia	Concentration:	0-50 μ M approximately	Incubation Time:	24 h	Result:	Dose-dependently reduces VEGF and PDK1 mRNA expression.
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Incubation Time:	24 h								
Result:	Dose-dependently reduces VEGF and PDK1 mRNA expression.								

REFERENCES

[1]. Zian Xue, et al. Benzo[d]isoxazole Derivatives as Hypoxia-Inducible Factor (HIF)-1 α Inhibitors. ACS Med. Chem. Lett. 2022.

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