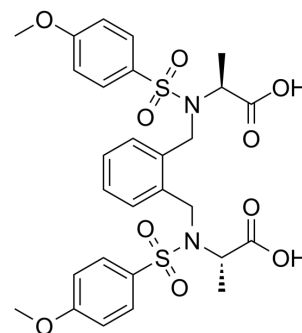


Keap1-Nrf2-IN-13

Cat. No.:	HY-150579
CAS No.:	2456294-92-9
Molecular Formula:	C ₂₈ H ₃₂ N ₂ O ₁₀ S ₂
Molecular Weight:	620.69
Target:	Keap1-Nrf2
Pathway:	NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Keap1-Nrf2-IN-13 is a Keap1-Nrf2 protein-protein interaction (PPI) inhibitor with an IC ₅₀ value of 0.15 μM. Keap1-Nrf2-IN-13 has strong binding affinities to the Keap1 protein by forming hydrogen bond with the key polar residues (Asn414, Arg415, Arg483, Gln530). Keap1-Nrf2-IN-13 can be used in the research of oxidative stress-related and inflammatory diseases, including pulmonary fibrosis, chronic obstructive pulmonary disorder (COPD) and cancers ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.15 μM (Keap1-Nrf2 PPI) ^[1]
In Vitro	Keap1-Nrf2-IN-13 (compound 21a, 0.5-50 μM) has inhibitory effect against Keap1-Nrf2 protein-protein interaction (PPI) with an IC ₅₀ value of 0.15 μM (fluorescence polarization (FP) assay) ^[1] . Keap1-Nrf2-IN-13 (0.1 mM, 90 min) has metabolic stability in the presence of human liver microsomes ^[1] . Keap1-Nrf2-IN-13 forms hydrogen bond interactions with the key polar residues (Asn414, Arg415, Arg483, Gln530), resulting in strong binding affinities to the Keap1 protein (docking assay) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. [1] Dhulfiqar Ali Abed, et al. Discovery of disubstituted xylylene derivatives as small molecule direct inhibitors of Keap1-Nrf2 protein-protein interaction. *Bioorg Med Chem.* 2020 Mar 15;28(6):115343.

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

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