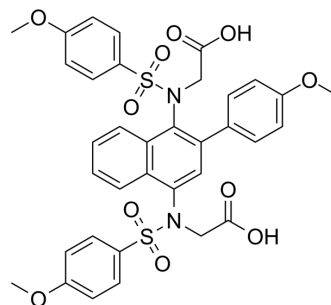


Nrf2 activator-7

Cat. No.:	HY-149244
CAS No.:	2456295-39-7
Molecular Formula:	C ₃₅ H ₃₂ N ₂ O ₁₁ S ₂
Molecular Weight:	720.77
Target:	Keap1-Nrf2
Pathway:	NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Nrf2 activator-7 (Compound 12b) is a potent Nrf2 activator and significantly activates the Nrf2 signaling pathway.								
In Vitro	<p>The binding activity of Nrf2 activator-7 to Keap1 has an IC₅₀ value of 85 nM by fluorescence polarization (FP) assay, an IC₅₀ value of 13.1 nM by time-resolved fluorescence energy transfer (TR-FRET) assay, and a K_i value of 4.9 nM^[1]. Nrf2 activator-7 (1, 10, 100 μM; 24 h) increases in the transcription of Nrf2 target genes (GSTM3, HMOX1 and NQO1)^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Real Time qPCR^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>NCM460D cells</td> </tr> <tr> <td>Concentration:</td> <td>1, 10, 100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Significantly increased transcription of Nrf2 target genes (GSTM3, HMOX1 and NQO1) at 100 μM.</td> </tr> </table>	Cell Line:	NCM460D cells	Concentration:	1, 10, 100 μM	Incubation Time:	24 h	Result:	Significantly increased transcription of Nrf2 target genes (GSTM3, HMOX1 and NQO1) at 100 μM.
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Concentration:	1, 10, 100 μM								
Incubation Time:	24 h								
Result:	Significantly increased transcription of Nrf2 target genes (GSTM3, HMOX1 and NQO1) at 100 μM.								

REFERENCES

[1]. Abed DA, et al. Optimization of the C2 substituents on the 1,4-bis(arylsulfonamido)naphthalene-N,N'-diacetic acid scaffold for better inhibition of Keap1-Nrf2 protein-protein interaction. *Eur J Med Chem.* 2023 Apr 5;252:115302.

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

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