## Nrf2/HO-1 activator 1

®

Cat. No.:	HY-151430	
Molecular Formula:	C <sub>21</sub> H <sub>18</sub> O <sub>5</sub>	
Molecular Weight:	350.36	
Target:	Keap1-Nrf2; ERK; Akt; JNK; Reactive Oxygen Species	
Pathway:	NF-κB; MAPK/ERK Pathway; Stem Cell/Wnt; PI3K/Akt/mTOR; Immunology/Inflammation; Metabolic Enzyme/Protease	ОН
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

<b>BIOLOGICAL ACTIVI</b>				
DIOLOGICAL ACTIVI				
Description	Nrf2/HO-1 activator 1 (Compound 24) is a potent Nrf2/HO-1 activator, neuroprotective agent. Nrf2/HO-1 activator 1 shows neuroprotective and antioxidant activities. Nrf2/HO-1 activator 1 can be used in Parkinson's disease (PD) research <sup>[1]</sup> .			
In Vitro	models <sup>[1]</sup> . Nrf2/HO-1 activator 1 (1-30 μ Nrf2/HO-1 activator 1 (12 μΜ	Irf2/HO-1 activator 1 (1-30 μM; 6 h) increases HO-1 expression in PC12 cells <sup>[1]</sup> . Irf2/HO-1 activator 1 (12 μM; 1-12 h) increases phosphorylation of ERK1/2, JNK, and Akt in PC12 cells <sup>[1]</sup> . ICE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Cell Line:	PC12 cells		
	Concentration:	0.3, 1, 3, 10, and 30 μM		
	Incubation Time:	4 hours		
	Result:	Inhibited 6-OHDA-induced toxicity with IC $_{50}$ of 3.9 $\mu$ M. Inhibited rotenone-induced toxicity with IC $_{50}$ of 4.8 $\mu$ M.		
	Western Blot Analysis <sup>[1]</sup>			
	Cell Line:	PC12 cells		
	Concentration:	10 µM		
	Incubation Time:	1, 3, 6, and 12 hours		
	Result:	Induced phosphorylation of ERK1/2, JNK, and Akt.		
	Western Blot Analysis <sup>[1]</sup>			
	Cell Line:	PC12 cells		
	Concentration:	1, 3, 10, and 30 μM		
	Incubation Time:	6 hours		

## Product Data Sheet

	Result:	Increased HO-1 expression in a dose-dependent manner, with 2-fold increases at 30 $\mu\text{M}$ concentrations.
In Vivo	Nrf2/HO-1 activator 1 inhibits the production of lipid peroxide in rat brain homogenates by 50.5% at 100 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

## REFERENCES

[1]. Qili Lu, et al. Novel cudraisoflavone J derivatives as potent neuroprotective agents for the treatment of Parkinson's disease via the activation of Nrf2/HO-1 signaling. Eur J Med Chem. 2022 Nov 15;242:114692.

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