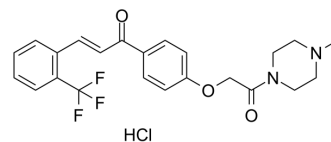


Nrf2 activator-4

Cat. No.:	HY-146086
CAS No.:	2383016-68-8
Molecular Formula:	C ₂₃ H ₂₄ ClF ₃ N ₂ O ₃
Molecular Weight:	468.9
Target:	Keap1-Nrf2; Reactive Oxygen Species
Pathway:	NF-κB; Immunology/Inflammation; Metabolic Enzyme/Protease
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)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (213.27 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	Mass 1 mg	5 mg	10 mg
		1 mM	2.1327 mL	10.6633 mL	21.3265 mL
		5 mM	0.4265 mL	2.1327 mL	4.2653 mL
		10 mM	0.2133 mL	1.0663 mL	2.1327 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.33 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.33 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.33 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Nrf2 activator-4 (Compound 20a) is a highly potent, orally active Nrf2 activator with an EC ₅₀ of 0.63 μM. Nrf2 activator-4 suppresses reactive oxygen species against oxidative stress in microglia. Nrf2 activator-4 effectively recovers the learning and memory impairment in a scopolamine-induced mouse model ^[1] .
IC₅₀ & Target	EC ₅₀ : 0.63 μM (Nrf2) ^[1]

REFERENCES

[1]. Kim HJ, et al. A novel chalcone derivative as Nrf2 activator attenuates learning and memory impairment in a scopolamine-induced mouse model. Eur J Med Chem. 2020 Jan 1;185:111777.

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

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