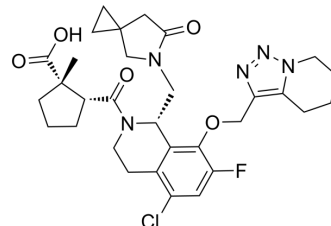


Nrf2 activator-6

Cat. No.:	HY-148480
CAS No.:	2728780-74-1
Molecular Formula:	C ₃₁ H ₃₇ ClFN ₅ O ₅
Molecular Weight:	614.11
Target:	Keap1-Nrf2
Pathway:	NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (162.84 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.6284 mL	8.1419 mL	16.2837 mL
				5 mM	0.3257 mL	1.6284 mL	3.2567 mL
				10 mM	0.1628 mL	0.8142 mL	1.6284 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.07 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.07 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.07 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Nrf2 activator-6, a tetrahydroisoquinoline compound, is a Nrf2 activator. Nrf2 activator-6 has an IC ₅₀ of 5 nM for inhibiting the Kelch domain-Nrf2 interaction (WO2021214470A1; Example 4) ^[1] .
In Vitro	Nrf2 activator-6 (Example 4) increases the mRNA level of NRF2 mediated gene NADPH:quinone acceptor oxidoreductase 1 (NQO1), with an EC ₅₀ of 0.3 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Cathy Louise LUCAS, et al. Tetrahydroisoquinoline compounds as nrf2 activators. WO2021214470A1.

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

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