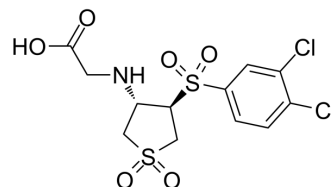


CBR-470-2

Cat. No.:	HY-134001
CAS No.:	2416095-00-4
Molecular Formula:	C ₁₂ H ₁₃ Cl ₂ NO ₆ S ₂
Molecular Weight:	402.27
Target:	Keap1-Nrf2
Pathway:	NF-κB
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 200 mg/mL (497.18 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.4859 mL	12.4295 mL	24.8589 mL
				5 mM	0.4972 mL	2.4859 mL	4.9718 mL
				10 mM	0.2486 mL	1.2429 mL	2.4859 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (12.43 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	CBR-470-2, a glycine-substituted analog, can activate NRF2 signaling. CBR-470-2 can be used for the research of modulation glycolysis ^[1] .
IC ₅₀ & Target	NRF2 ^[1]
In Vitro	CBR-470-2 (1-10 μM; 24 h) increases transcript levels of the NRF2-responsive genes NQO1 and HMOX1 in epidermal keratinocytes and dermal fibroblasts ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	CBR-470-2 (50 mg/kg; p.o. twice daily for 10 d) induces activation of NRF2 signaling in vivo ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Balb/C mice (5-week old) are exposed to UVB ^[1]
Dosage:	50 mg/kg
Administration:	P.o. twice daily for 10 days
Result:	Resulted in comparable beneficial effects on erythema histological scores and total wounded area. Decreased epidermal thickness in response to UV exposure.

REFERENCES

[1]. Bollong MJ, et, al. A metabolite-derived protein modification integrates glycolysis with KEAP1-NRF2 signalling. Nature. 2018 Oct;562(7728):600-604.

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