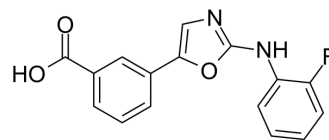


NF-κB activator 2

Cat. No.:	HY-134477		
CAS No.:	2375281-44-8		
Molecular Formula:	C ₁₆ H ₁₁ FN ₂ O ₃		
Molecular Weight:	298.27		
Target:	NF-κB		
Pathway:	NF-κB		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (838.17 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.3527 mL	16.7633 mL	33.5267 mL
		5 mM	0.6705 mL	3.3527 mL	6.7053 mL
10 mM		0.3353 mL	1.6763 mL	3.3527 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: ≥ 2.08 mg/mL (6.97 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	NF-κB activator 2 is a potent and orally active NF-κB activator, with an EC ₅₀ of 1.58 μM. NF-κB activator 2 induces SOD ₂ through increasing NF-κB expression and activation. NF-κB activator 2 can be used for the research of amyotrophic lateral sclerosis (ALS) ^[1] .
IC₅₀ & Target	NF-κB 1.58 μM (EC ₅₀)
In Vitro	NF-κB activator 2 (compound 61) (1 μM, 6 h) induces SOD ₂ mRNA expression in SH-SY5Y neuroblastoma cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	NF-κB activator 2 (1 mg/kg; i.v.) displays a suitable half-life (0.96 h) in mice ^[1] . NF-κB activator 2 (5 mg/kg; p.o.) displays a comparable half-life (2.86 h), oral bioavailability (15.6%), and C _{max} (92 ng/mL) ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Mathew B, et, al. Structure-activity relationship (SAR) studies of N-(3-methylpyridin-2-yl)-4-(pyridin-2-yl)thiazol-2-amine (SRI-22819) as NF- κ B activators for the treatment of ALS. Eur J Med Chem. 2020 Oct 22;112952.

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

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