Proteins

Product Data Sheet

Anti-inflammatory agent 51

Cat. No.: HY-155765 CAS No.: 2911610-03-0 Molecular Formula: $C_{22}H_{22}N_6O_6S$

Molecular Weight: 498.51 Target: NF-κB Pathway: NF-κΒ

Storage: Powder -20°C 3 years

In solvent

2 years -80°C 6 months

-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 125 mg/mL (250.75 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.0060 mL	10.0299 mL	20.0598 mL
	5 mM	0.4012 mL	2.0060 mL	4.0120 mL
	10 mM	0.2006 mL	1.0030 mL	2.0060 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	Anti-inflammatory agent 51 (compound 11d) is an amide/sulfonamide derivative with anti-inflammatory activities. Anti-inflammatory agent 51 inhibits NF-κB activation, has the potential for acute lung injury and ulcerative colitis research ^[1] .
In Vitro	Anti-inflammatory agent 51 (compound 11d) potently reduces the release of IL-6 (IC_{50} value of 0.61 μ M) and TNF- α (IC_{50} of 4.34 μ M), and decreased the mRNA level of cytokines in J774A.1 cells. Anti-inflammatory agent 51 restores $I\kappa$ B α and inhibits the translocation of phosphorylated p65 into the nucleus ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Anti-inflammatory agent 51 (compound 11d) improved LPS-induced acute lung injury (ALI) and alleviated DSS-induced ulcerative colitis in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

1]. Pan Chen, et al. Design, syn and ulcerative colitis. Eur J Me			le derivatives as potential anti-inflan	nmatory agents against acute lung injury
			edical applications. For research	
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