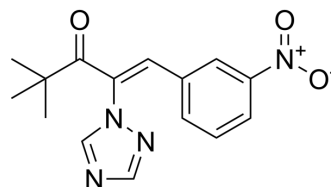


Nexinhib20

Cat. No.:	HY-125792
CAS No.:	331949-35-0
Molecular Formula:	C ₁₅ H ₁₆ N ₄ O ₃
Molecular Weight:	300.31
Target:	Ras; Reactive Oxygen Species
Pathway:	GPCR/G Protein; MAPK/ERK Pathway; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (332.99 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.3299 mL	16.6495 mL	33.2989 mL
		5 mM	0.6660 mL	3.3299 mL	6.6598 mL
10 mM		0.3330 mL	1.6649 mL	3.3299 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 (8.32 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.32 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Nexinhib20 is a specific Rab27a-JFC1 interaction inhibitor with a calculated IC ₅₀ of 2.6 μM. Nexinhib20 significantly inhibits superoxide anion production. Nexinhib20 efficiently decreases exocytosis of azurophilic granules in neutrophils stimulated with fMLP, GM-CSF or both. Nexinhib20 has a significant anti-inflammatory activity ^[1] .
IC₅₀ & Target	IC ₅₀ : 2.6 μM (Rab27a-JFC1 interaction) ^[1]

REFERENCES

[1]. Jennifer L Johnson, et al. Identification of Neutrophil Exocytosis Inhibitors (Nexinhibs), Small Molecule Inhibitors of Neutrophil Exocytosis and Inflammation: DRUGGABILITY OF THE SMALL GTPase Rab27a. J Biol Chem. 2016 Dec 9;291(50):25965-25982.

[2]. Johnson JL, et al. Identification of Neutrophil Exocytosis Inhibitors (Nexinhibs), Small Molecule Inhibitors of Neutrophil Exocytosis and Inflammation: DRUGGABILITY OF THE SMALL GTPase Rab27a. J Biol Chem. 2016 Dec 9;291(50):25965-25982.

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

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