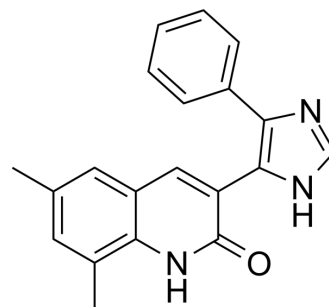


DIPQUO

Cat. No.:	HY-128591		
CAS No.:	1269365-82-3		
Molecular Formula:	C ₂₀ H ₁₇ N ₃ O		
Molecular Weight:	315.37		
Target:	Phosphatase		
Pathway:	Metabolic Enzyme/Protease		
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 : 5 mg/mL (15.85 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.1709 mL	15.8544 mL	31.7088 mL
	5 mM		0.6342 mL	3.1709 mL	6.3418 mL
	10 mM		0.3171 mL	1.5854 mL	3.1709 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 0.5 mg/mL (1.59 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 0.5 mg/mL (1.59 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 0.5 mg/mL (1.59 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DIPQUO is an activator of the bone marker alkaline phosphatase (ALP), with an EC₅₀ of 6.27 μM in C2C12 cells. DIPQUO promotes mouse and human osteoblast differentiation via activation of p38 MAPK-β^[1].

IC₅₀ & Target

EC₅₀: 6.27 μM (ALP, C2C12 cells)^[1]

CUSTOMER VALIDATION

-
- Cancer Manag Res. 2021 Jan 27;13:773-785.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Cook B, et al. Discovery of a Small Molecule Promoting Mouse and Human Osteoblast Differentiation via Activation of p38 MAPK- β . Cell Chem Biol. 2019 Mar 29.

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

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