

DIPQUO hydrochloride

Chemical Properties

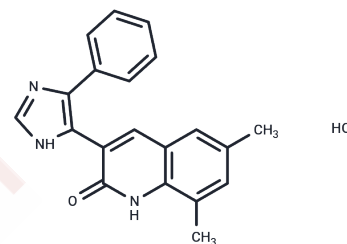
CAS No. :

Formula: C₂₀H₁₈ClN₃O

Molecular Weight: 351.83

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	DIPQUO hydrochloride is an activator of the bone marker alkaline phosphatase (ALP), with an EC ₅₀ of 6.27 μM in C2C12 cells. DIPQUO hydrochloride promotes mouse and human osteoblast differentiation via activation of p38 MAPK-β.
Targets(IC ₅₀)	Phosphorylase
In vitro	ALP activity was measured using a fluorescent emission assay as a reporter for enzymatic digestion of ALP substrate in lysates derived from C2C12 myoblasts, DIPQUO shows EC ₅₀ of 6.27 μM[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (142.11 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8423 mL	14.2114 mL	28.4228 mL
5 mM	0.5685 mL	2.8423 mL	5.6846 mL
10 mM	0.2842 mL	1.4211 mL	2.8423 mL
50 mM	0.0568 mL	0.2842 mL	0.5685 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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