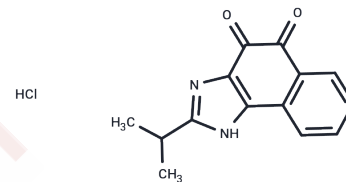


KL1333 hydrochloride

Chemical Properties

CAS No. :	1800406-26-1
Formula:	C ₁₄ H ₁₃ ClN ₂ O ₂
Molecular Weight:	276.72
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	KL1333 hydrochloride is an orally effective NAD ⁺ modulator that acts as a substrate for NAD(P)H: quinone oxidoreductase 1 (NQO1), leading to increased intracellular NAD ⁺ levels through NADH oxidation. Elevated NAD ⁺ subsequently activates SIRT1 and AMPK, which in turn activate PGC-1 α . KL1333 hydrochloride improves energy metabolism and mitochondrial dysfunction in fibroblasts of mitochondrial encephalomyopathy, lactic acidosis, and stroke-like episodes (MELAS). It also has a protective effect against cisplatin-induced ototoxicity in cultured mouse cochlea.
Targets(IC50)	Reductase,Mitochondrial Metabolism

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6138 mL	18.0688 mL	36.1376 mL
5 mM	0.7228 mL	3.6138 mL	7.2275 mL
10 mM	0.3614 mL	1.8069 mL	3.6138 mL
50 mM	0.0723 mL	0.3614 mL	0.7228 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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