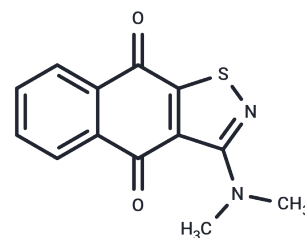


LOM612

Chemical Properties

CAS No. : 2173232-79-4
Formula: C₁₃H₁₀N₂O₂S
Molecular Weight: 258.3
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	LOM612 is a potent FOXO relocator, with an EC ₅₀ value of 1.5 μM in U2fox RELOC cells.
Targets(IC ₅₀)	Others
In vitro	LOM612 is cytotoxic to HepG2 cells, with an IC ₅₀ value of 0.64 μM, and does not sensitize non-cancer THLE2 cells (IC ₅₀ , 2.76 μM).LOM612 potently activates nuclear translocation of FOXO with an EC ₅₀ value of 1.5 μM, and this effect is independent of CRM-1. LOM612 effectively induces translocation of endogenous FOXO3a and FOXO1, and increases the expression of the FOXO target genes p27 and FasL. LOM612 shows no effect on the nuclear export of endogenous NFκB2 transcription factor in U2OS cells.

Solubility Information

Solubility	DMSO: 6 mg/mL (23.23 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	3.8715 mL	19.3573 mL	38.7147 mL
5 mM	0.7743 mL	3.8715 mL	7.7429 mL
10 mM	0.3871 mL	1.9357 mL	3.8715 mL
50 mM	0.0774 mL	0.3871 mL	0.7743 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.

Reference

Cautain B, et al. Discovery of a Novel, Isothiazolonaphthoquinone-Based Small Molecule Activator of FOXO Nuclear-Cytoplasmic Shuttling. PLoS One. 2016 Dec 9;11(12):e0167491.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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