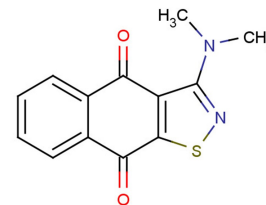


LOM612

Chemical Properties

CAS No.:	2173232-79-4
Formula:	C ₁₃ H ₁₀ N ₂ O ₂ S
Molecular Weight:	258.3
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	LOM612 is a potent FOXO relocator, with an EC ₅₀ value of 1.5 μ M in U2fox RELOC cells.
Targets(IC ₅₀)	FOXO: (EC ₅₀)1.5 μ M
In vitro	LOM612 is cytotoxic to HepG2 cells, with an IC ₅₀ value of 0.64 μ M, and does not sensitize non-cancer THLE2 cells (IC ₅₀ , 2.76 μ M).LOM612 potently activates nuclear translocation of FOXO with an EC ₅₀ value of 1.5 μ M, 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 NF κ B2 transcription factor in U2OS cells.

Solubility Information

Solubility	DMSO: 6 mg/mL (23.23 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.871 mL	19.357 mL	38.715 mL
5 mM	0.774 mL	3.871 mL	7.743 mL
10 mM	0.387 mL	1.936 mL	3.871 mL
50 mM	0.077 mL	0.387 mL	0.774 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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