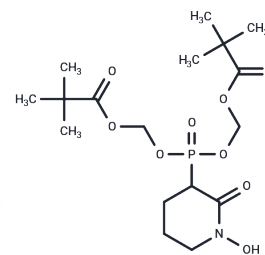


POMHEX

Chemical Properties

CAS No. :	2004714-34-3
Formula:	C17H30NO9P
Molecular Weight:	423.4
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Pomhex, a cell-permeable potent enolase inhibitor with anticancer activity, is used in the study of cancer lethality. Pomhex, a racemic mixture, is a potent and selective ENO2 inhibitor. Pomhex is inhibitory to the glycolytic process, and shows anticancer activity at low concentrations in an ENO1-deficient tumor model. Pomhex, a cell-permeable potent enolase inhibitor with anticancer activity, is a potent and selective ENO2 inhibitor.
Targets(IC50)	Apoptosis, Glucokinase
In vitro	POMHEX (78 nM, 8h) exhibits minimal impact on ENO1-WT glioma cells but significantly affects cells with ENO1 deletion[1]. POMHEX (0-720 nM) selectively induces energy stress, inhibits proliferation, and triggers apoptosis in ENO1-deleted glioma cells[1].
In vivo	When administered intravenously or intraperitoneally at a dosage of 10 mg/kg (body weight) per day, POMHEX is well-tolerated without inducing hemolytic anemia. However, intravenous injection of POMHEX at 35 mg/kg causes lethargy and necessitates euthanasia by veterinarians[1]. POMHEX rapidly hydrolyzes to Hemi POMHEX in mouse plasma ex vivo, with a half-life of approximately 30 seconds, and in human blood ex vivo, the half-life is around 9 minutes [1].

Solubility Information

Solubility	DMSO: 50 mg/mL (118.09 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.72 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3618 mL	11.8092 mL	23.6183 mL
5 mM	0.4724 mL	2.3618 mL	4.7237 mL
10 mM	0.2362 mL	1.1809 mL	2.3618 mL
50 mM	0.0472 mL	0.2362 mL	0.4724 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

Yu-Hsi Lin, et al. An enolase inhibitor for the targeted treatment of ENO1-deleted cancers. Nat Metab. 2020 Nov 23.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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