

Eltanexor

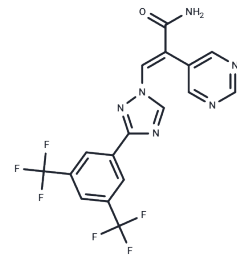
Chemical Properties

CAS No. : 1642300-52-4

Formula: C₁₇H₁₀F₆N₆O

Molecular Weight: 428.29

Storage: Store at low temperature, Keep away from direct sunlight
 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	Eltanexor (ONO-7706) is an orally active exportin-1 (XPO1) inhibitor. It has effective anti-leukemic activity. Eltanexor inhibits XPO1-dependent nuclear export (EC ₅₀ =60.9 nM) by directly targeting XPO1. Eltanexor causes caspase-dependent apoptosis in a panel of leukemic cell lines.
Targets(IC50)	Others, CRM1
In vitro	Eltanexor (KPT-8602) (1 nM; 16 hours) causes apoptosis in leukemia cell lines. KPT-8602 (2-6 nM; 72 hours) decreases cell viability in leukemia cell lines (EC ₅₀ s ranging from 25 to 145 nM).
In vivo	KPT-8602 (15 mg/kg; oral gavage; daily for 12 days) demonstrates potent anti-lymphoblastic leukemia activity.

Solubility Information

Solubility	DMSO: 80 mg/mL (186.79 mM), Sonication is recommended. H ₂ O: < 0.1 mg/mL (insoluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.71 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	2.3349 mL	11.6743 mL	23.3487 mL
5 mM	0.467 mL	2.3349 mL	4.6697 mL
10 mM	0.2335 mL	1.1674 mL	2.3349 mL
50 mM	0.0467 mL	0.2335 mL	0.467 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

Vercruysse T et al. The second-generation exportin-1 inhibitor KPT-8602 demonstrates potent activity against acute lymphoblastic leukemia. Clin Cancer Res. 2016 Oct 25.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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