

Selpercatinib

Chemical Properties

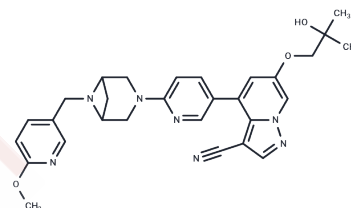
CAS No. : 2152628-33-4

Formula: C₂₉H₃₁N₇O₃

Molecular Weight: 525.6

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	Selpercatinib (LOXO-292) is a tyrosine kinase inhibitor with antineoplastic properties, displaying IC ₅₀ values of 14.0 nM for RET (WT), 24.1 nM for RET (V804M), and 530.7 nM for RET (G810R).
Targets(IC ₅₀)	c-RET

Solubility Information

Solubility	DMSO: 7 mg/mL (13.32 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: 1 mg/mL (1.9 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	1.9026 mL	9.5129 mL	19.0259 mL
5 mM	0.3805 mL	1.9026 mL	3.8052 mL
10 mM	0.1903 mL	0.9513 mL	1.9026 mL
50 mM	0.0381 mL	0.1903 mL	0.3805 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

Steven W. Andrews, et al. Substituted pyrazolo[1,5-a]pyridine compounds as ret kinase inhibitors. WO2018071447A1.

Li S, Liu Z, Jiao X, et al. Selpercatinib attenuates bleomycin-induced pulmonary fibrosis by inhibiting the TGF- β 1 signaling pathway. Biochemical Pharmacology. 2024: 116282.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481