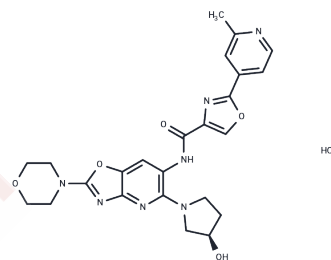


Emavusertib hydrochloride

Chemical Properties

CAS No. : 2376399-42-5
 Formula: C₂₄H₂₆ClN₇O₅
 Molecular Weight: 527.96
 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	Emavusertib (CA-4948) hydrochloride, a selective and potent IRAK4/FLT3 inhibitor, is designed for oral administration. It achieves an IC ₅₀ of 57 nM against IRAK4 in a FRET kinase assay and demonstrates anti-tumor activity [1] [2] [3].
Targets(IC ₅₀)	Apoptosis,FLT,NF-κB,IRAK,MyD88
In vitro	Emavusertib exhibits over 350 times greater binding affinity for IRAK-4 compared to IRAK 1, 2, and 3 [3]. At a concentration of 10 μM over 72 hours, Emavusertib reduces the percentage of proliferating cells in marginal zone lymphoma (MZL) cell lines and moderately increases the sub-G ₀ fraction [3]. It also significantly induces apoptosis in MZL cells, particularly when combined with Ibrutinib [3].
In vivo	Emavusertib administered orally at doses ranging from 25-150 mg/kg once daily for a consecutive period of 14 days was found to effectively inhibit tumor growth in mice [3]. The animal model used involved mice harboring OCI-LY10 tumors [3]. Dosages were administered either once daily at 25, 50, or 150 mg/kg, or twice daily at 12.5, 25, or 50 mg/kg. The results demonstrated that the fractional dosing of Emavusertib twice daily showed equivalent anti-tumor activity to the corresponding once-daily dosages, such as 12.5 mg/kg (twice daily) versus 25 mg/kg (once daily).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8941 mL	9.4704 mL	18.9408 mL
5 mM	0.3788 mL	1.8941 mL	3.7882 mL
10 mM	0.1894 mL	0.947 mL	1.8941 mL
50 mM	0.0379 mL	0.1894 mL	0.3788 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.

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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