

Ravoxertinib

Chemical Properties

CAS No. : 1453848-26-4

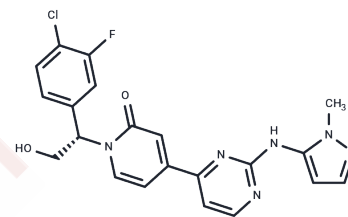
Formula: C₂₁H₁₈ClFN₆O₂

Molecular Weight: 440.86

Store at low temperature

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	Ravoxertinib (GDC-0994) is an efficacious, orally available ERK1/2 inhibitor with an IC ₅₀ of 1.1/0.3 nM.
Targets(IC ₅₀)	ERK
In vitro	GDC-0994 significantly inhibits phospho-p90RSK in tumor cells.
In vivo	GDC-0994 (p.o.) inhibits intracellular ERK phosphorylation and activation of ERK-mediated signaling pathways, subsequently impeding the proliferation and survival of ERK-dependent tumor cells. In in vitro cancer models, GDC-0994 (p.o.) demonstrates significant single-dose efficacy, including against BRAF and KRAS mutant human xenograft tumors in mice.

Solubility Information

Solubility	Ethanol: 81 mg/mL (183.73 mM),Sonication is recommended. DMSO: 245 mg/mL (555.73 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 (4.54 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	2.2683 mL	11.3415 mL	22.6829 mL
5 mM	0.4537 mL	2.2683 mL	4.5366 mL
10 mM	0.2268 mL	1.1341 mL	2.2683 mL
50 mM	0.0454 mL	0.2268 mL	0.4537 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

AACR2014. Abstract.

Xu P, Zeng S, Xia X, et al. FAM172A promotes follicular thyroid carcinogenesis and may be a marker of FTC. Endocrine-Related Cancer. 2020, 1(aop)

Xu P, Zeng S, Xia X, et al. FAM172A promotes follicular thyroid carcinogenesis and may be a marker of FTC[J]. Endocrine-Related Cancer. 2020, 1(aop).

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