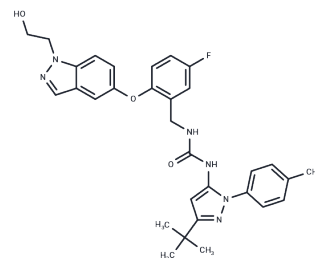


Pexmetinib

Chemical Properties

CAS No. :	945614-12-0
Formula:	C ₃₁ H ₃₃ FN ₆ O ₃
Molecular Weight:	556.63
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Pexmetinib (ARRY-614) (ARRY-614) is a potent, orally bioavailable, dual p38 MAPK/Tie-2 inhibitor with IC ₅₀ of 4 nM/18 nM in a HEK-293 cell line. Phase 1.
Targets(IC ₅₀)	Tie-2,p38 MAPK,Autophagy
In vitro	In HeLa cells, Pexmetinib inhibits phospho-HSP27 with IC ₅₀ of 2 nM. In isolated PBMCs and human whole blood cells, Pexmetinib inhibits LPS-Induced TNFα with IC ₅₀ of 4.5 nM and 313 nM, respectively. [1]
In vivo	In male Swiss Webster mice, Pexmetinib (30 mg/kg, p.o.) inhibits the production of the proinflammatory cytokines TNFα and IL6 in response to lipopolysaccharide (LPS) or staphylococcus enterotoxin A. In established RPMI 8226 xenografts, ARRY-614 (25 mg/kg, p.o.) inhibits tumor growth and shows additive activity when combines with thalidomide. In ovarian carcinoma A2780 xenografts, ARRY-614 (30 mg/kg, p.o.) also shows additive tumor growth inhibition activity when combines with Taxol. [1]

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 93 mg/mL (167.1 mM), Ethanol: 93 mg/mL (167.1 mM), < 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7965 mL	8.9826 mL	17.9653 mL
5 mM	0.3593 mL	1.7965 mL	3.5931 mL
10 mM	0.1797 mL	0.8983 mL	1.7965 mL
50 mM	0.0359 mL	0.1797 mL	0.3593 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.

Reference

Koch K. 2013 AACR Annual Meeting.

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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