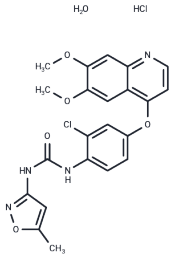
Data Sheet (Cat.No.T63505)

TargetMol

Tivozanib hydrochloride hydrate

Chemical Properties



CAS No. : 682745-41-1

Formula: C22H22Cl2N4O6

Molecular Weight: 509.34

Storage: Keep away from direct sunlight,Keep away from moisture
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	Tivozanib hydrochloride hydrate (AV-951 hydrochloride hydrate) is an orally active, selective, and potent vascular endothelial growth factor receptor (VEGFR) tyrosine kinase inhibitor that inhibits VEGFR-1, VEGFR-2, and VEGFR-3.
Targets(IC50)	VEGFR
In vitro	Tivozanib hydrochloride hydrate (0-100 nM; 24 hours) inhibited the proliferation of HUVEC cells[1].
In vivo	In the Calu-6 tumor-bearing athymic mice model, Tivozanib hydrochloride hydrate (0.04-1 mg/kg/day; orally, for 14-21 days) inhibits tumor growth, angiogenesis, and vascular permeability[1].

Solubility Information

Solubility	DMSO: 250 mg/mL (490.83 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9633 mL	9.8166 mL	19.6333 mL
5 mM	0.3927 mL	1.9633 mL	3.9267 mL
10 mM	0.1963 mL	0.9817 mL	1.9633 mL
50 mM	0.0393 mL	0.1963 mL	0.3927 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

Nakamura K, et al., KRN951, a highly potent inhibitor of vascular endothelial growth factor receptor tyrosine kinases, has antitumor activities and affects functional vascular properties. Cancer Res. 2006 Sep 15;66(18):9134-42.