Data Sheet (Cat.No.T8825)

TargetMol

Capmatinib 2HCl.H2O

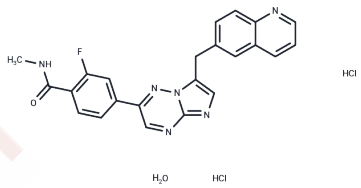
Chemical Properties

CAS No. : 1865733-40-9

Formula: C23H21Cl2FN6O2

Molecular Weight: 503.36

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	Capmatinib 2HCl.H2O (NVP-INC280 2HCl.H2O) is an orally bioavailable inhibitor of the proto-oncogene c-Met (HGFR)with potential antineoplastic activity.
Targets(IC50)	Apoptosis,c-Met/HGFR
In vitro	Capmatinib was found to be highly selective for MET over other kinases.?It was active against cancer models that are characterized by MET amplification, marked MET overexpression, MET exon 14 skipping mutations, or MET activation via expression of the ligand hepatocyte growth factor (HGF)[1].
In vivo	In cancer models where MET is the dominant oncogenic driver, anticancer activity could be further enhanced by combination treatments, for example, by the addition of apoptosis-inducing BH3 mimetics.?The combinations of capmatinib and other kinase inhibitors resulted in enhanced anticancer activity against models where MET activation co-occurred with other oncogenic drivers, for example EGFR activating mutations[1].

Solubility Information

Solubility	DMSO: 30 mg/mL (59.6 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 (3.97 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9866 mL	9.9332 mL	19.8665 mL
5 mM	0.3973 mL	1.9866 mL	3.9733 mL
10 mM	0.1987 mL	0.9933 mL	1.9866 mL
50 mM	0.0397 mL	0.1987 mL	0.3973 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

Baltschukat S, et al. Capmatinib (INC280) Is Active Against Models of Non-Small Cell Lung Cancer and Other Cancer Types with Defined Mechanisms of MET Activation. Clin Cancer Res. 2019 May 15;25(10):3164-3175.
Liu X, et al, Clin Cancer Res, 2011, 17(227). 7127-7138.