Data Sheet (Cat.No.T7418)

BBT594

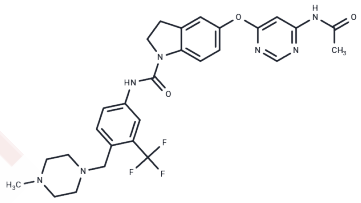
Chemical Properties

CAS No. : 882405-89-2

Formula: C28H30F3N7O3

Molecular Weight: 569.58

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	BBT594 (NVP-BBT594)(NVP-BBT594) is a potent inhibitor of receptor tyrosine kinase RET, Treatment of cancer.
Targets(IC50)	c-RET

Solubility Information

Solubility	DMSO: 33 mg/mL (57.94 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 (3.51 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	1.7557 mL	8.7784 mL	17.5568 mL
5 mM	0.3511 mL	1.7557 mL	3.5114 mL
10 mM	0.1756 mL	0.8778 mL	1.7557 mL
50 mM	0.0351 mL	0.1756 mL	0.3511 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

Zhang Q , Shi C , Han L , et al. Inhibition of mTORC1/C2 signaling improves anti-leukemia efficacy of JAK/STAT blockade in CRLF2 rearranged and/or JAK driven Philadelphia chromosome-like acute B-cell lymphoblastic leukemia[J]. Oncotarget, 2018, 9(8).

Morandi A , Martin L A , Gao Q , et al. GDNF-RET Signaling in ER-Positive Breast Cancers Is a Key Determinant of Response and Resistance to Aromatase Inhibitors[J]. Cancer Research, 2013, 73(12):3783-3795.