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产品名称: **BBT594**
产品别名: **NVP-BBT594**

生物活性:				
Description	BBT594 is a potent receptor tyrosine kinase RET inhibitor, used for cancer treatment.			
In Vitro	NVP-BBT594 blocks the GDNF-mediated enhancement of MCF7-LTED cell viability in 2D culture and 3D colony formation. The addition of 10 pM E2, to mimic the E2 level in post-menopausal patients that have relapsed on AI treatment and ceased AI therapy, increases 3D colony formation of both MCF7 and MCF7-LTED cells, and this effect is efficiently reverted by NVP-BBT594. Parental T47D cells cultured in presence of low level E2, GFR α 1/GDNF stimulation results in increased 3D colony formation, which is significantly reverted by NVP-BBT594. NVP-BBT594 targets GDNF-RET signaling and sensitizes MCF7-2A cells to letrozole treatment. NVP-BBT594 impairs GDNF-mediated RET downstream signaling and significantly enhances the antiproliferative effects of letrozole[1]. NVP-BBT594 shows the highest suppression of GDNF-induced RET signaling, as assessed by RET, ERK1/2, AKT and ER phosphorylation. NVP-AST487 and NVP-BBT594 have comparable RET inhibitory activity in wild-type MCF7 cells[2].			
Solvent&Solubility	In Vitro: DMSO : $\geq$ 33 mg/mL (57.94 mM) * "$\geq$" means soluble, but saturation unknown.			
		SolventMassConcentration	1 mg	5 mg
	Preparing	1 mM	1.7557 mL	8.7784 mL
	Stock Solutions	5 mM	0.3511 mL	1.7557 mL
		10 mM	0.1756 mL	0.8778 mL
*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。 储备液的保存方式和期限：-80℃，6 months；-20℃，1 month。-80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。				
References	[1]. Morandi A, et al. GDNF-RET signaling in ER-positive breast cancers is a key determinant of response and resistance to aromatase inhibitors. Cancer Res. 2013 Jun 15;73(12):3783-95 [2]. Andreucci E, et al. Targeting the receptor tyrosine kinase RET in combination with aromatase inhibitors in ER positive breast cancer xenografts. Oncotarget. 2016 Sep 2. doi: 10.18632/oncotarget.11826. [Epub ahead of print]			