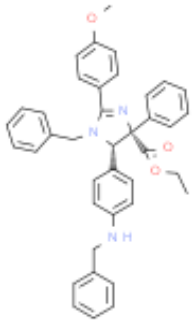
Product Data Sheet

Cas No.:	1446350-60-2	Cat. No:	PL10724
Product Name:	TCH-165		
Product synonym:	-		
Chemical name:	TCH-165		
MF:	C39H37N3O3	FW:	595.7294
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	O(C([H])([H])C([H])([H])[H])C([C@]1(C2C([H])=C([H])C([H])=C([H])C=2[H])[C@]([H])(C2C([H])=C([H])C(=C([H])C=2[H])N([H])C([H])([H])C2C([H])=C([H])C([H])=C([H])C=2[H])N(C([H])([H])C2C([H])=C([H])C([H])=C([H])C=2[H])C(C2C([H])=C([H])C(=C([H])C=2[H])OC([H])([H])[H])=N1)=O		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

TCH-165 是蛋白酶体组装的小分子调节剂，可增加 20S 水平并促进 20S 介导的蛋白质降解。

生物活性	TCH-165 is a small molecule modulator of proteasome assembly, which increases 20S levels and facilitates 20S-mediated protein degradation.
IC50 & Target[1][2]	Proteasome assembly

体外研究(In Vitro)	TCH-165 (0.01-10 μM; 72 hours; RPMI8226 and U87MG cells) treatment inhibits cell growth of RPMI8226 and U87MG cells with IC50 of 1.6 μM and 2.4 μM, respectively. TCH-165 (0-10 μM; 24 hours; HEK293T cells) treatment enhances ODC degradation is blocked by BTZ indicated that this event is proteasome-mediated. TCH-165 enhances proteolytic degradation in a concentration-dependent manner. TCH-165 enhances the chymotrypsin-like (CT-L), trypsin-like (Tryp-L) and caspase-like (Casp-L) activities with EC50s of 4.2 μM, 3.2 μM and 4.7 μM, respectively. TCH-165 enhances 20S-mediated degradation of IDPs, α-syn, and tau in vitro, and does not induce the degradation of structured proteins such as GAPDH. TCH-165-treated cells display a decrease in the assembled 26S and an increase in the 20S proteasome. TCH-165 regulates the dynamic equilibrium between the 20S and 26
包装储存	Powder -20°C 3 years； 4°C 2 years
溶解度数据	In Vitro: DMSO : 250 mg/mL (419.65 mM; Need ultrasonic)配制储备液