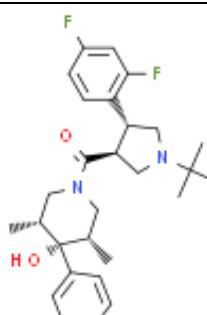


Product Data Sheet

Cas No.:	862281-92-3	Cat. No:	PL07073
Product Name:	PF-00446687		
Product synonym:	-		
Chemical name:	PF-00446687		
MF:	C28H36N2O2F2	FW:	470.59444
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	O=C([C@H]1[C@H](C2=C(C=C(F)C=C2)F)CN(C(C)(C)C)C1)N3C[C@H]([C@](O)(C4=CC=CC=C4)[C@@H](C)C3)C		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

PF-00446687 是一种有效的，脑渗透性的，选择性黑皮质素 4 受体 (MC4R) 激动剂，EC₅₀ 为 12 ± 1 nM。

生物活性	PF-00446687 is a potent, selective melanocortin-4 receptor (MC4R) agonist with EC ₅₀ of 12±1 nM. Pf-446687 is brain penetrant.
IC ₅₀ & Target[1][2]	EC ₅₀ : 12±1 nM (MC4R)
体外研究(In Vitro)	PF-00446687 binds MC4 receptor with a K _i of 27±4 nM. PF-00446687 has a relatively weak activity at the MC1, MC3, and MC5 receptors with EC ₅₀ s of 1.02±0.30 μM, 1.16±0.35 μM, and 1.98±0.20 μM, respectively. The broad off-target profiles of PF-00446687 are assessed in the CEREP Bioprint wide ligand screening panel, with the most potent binding activities being at the σ receptor (K _i =330 nM), the sodium ion channel (K _i =690 nM), and the muscarinic M2 receptor (K _i =730 nM). has not independently confirmed the accuracy of these methods. They are for reference only.
体内研究(In Vivo)	Pf-446687 is highly selective for MC4R and is both brain penetrant and stable in vivo. Peripheral administration of the brain penetrant MC3/4R receptor peptide agonist, Melanotan II (MTII), and the highly selective, small molecule MC4R agonist, Pf-446687, enhances partner preference formation in the prairie vole, but not in the non-monogamous meadow vole. has not independently confirmed the accuracy of these methods. They are for reference only.

包装储存	Powder -20°C 3 years; 4°C 2 years
溶解度数据	In Vitro: DMSO : 62.5 mg/mL (132.81 mM; Need ultrasonic)配制储备液