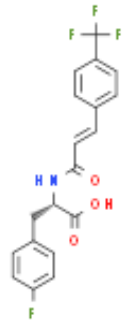
Product Data Sheet

Cas No.:	2708177-73-3	Cat. No:	PL04361
Product Name:	PI3K/Akt/CREB activator 1		
Product synonym:	-		
Chemical name:	PI3K/Akt/CREB activator 1		
MF:	C19H15F4NO3	FW:	381.320919275284
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	FC1C=CC(=CC=1)C[C@@H](C(=O)O)NC(/C=C/C1C=CC(C(F)(F)F)=CC=1)=O		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

PI3K/Akt/CREB activator 1 (compound AE-18) 是一种口服有效的 PI3K/Akt/CREB 的激活剂。PI3K/Akt/CREB activator 1 通过 PI3K/Akt/CREB 通路上调脑源性神经营养因子，促进神经元增殖，诱导 Neuro-2a 细胞分化成神经元样形态，加速海马原代神经元轴突-树突极化的建立。PI3K/Akt/CREB activator 1 可用于血管性痴呆 (VaD) 的研究。

生物活性	PI3K/Akt/CREB activator 1 (compound AE-18) is a potent, orally active PI3K/Akt/CREB activator. PI3K/Akt/CREB activator 1 promotes neuronal proliferation, induced differentiation of Neuro-2a cells into a neuron-like morphology, and accelerated the establishment of axon-dendrite polarization of primary hippocampal neurons through upregulating brain-derived neurotrophic factor via the PI3K/Akt/CREB pathway. PI3K/Akt/CREB activator 1 can be used in research of vascular dementia (VaD).
体外研究(In Vitro)	PI3K/Akt/CREB activator 1 (compound AE-18; 10 and 20 μM; 48 h) induces neurite outgrowth and proliferation through upregulating BDNF via the PI3K/Akt/CREB pathway Neuro-2a cells. PI3K/Akt/CREB activator 1 (10 and 20 μM; neurons) enhances neuronal differentiation and axon-dendrite polarization in cultured hippocampal neurons through the PI3K/AKT signal pathway. has not independently confirmed the accuracy of these methods. They are for reference only.

体内研究(In Vivo)	PI3K/Akt/CREB activator 1 (compound AE-18; 5 and 10 mg/kg; i.g.; male Sprague-Dawley rats with chronic cerebral hypoperfusion (CCH) model) improves cerebral blood flow (CBF) recovery after bilateral common carotid artery occlusion (BCCAO). PI3K/Akt/CREB activator 1 (5 and 10 mg/kg; i.g.; for 5 d) mitigates impairment of learning and memory in chronic cerebral hypoperfusion (CCH) rat model and alleviates CCH-induced pathological injury in the hippocampus after BCCAO. 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 : 250 mg/mL (655.62 mM; Need ultrasonic)配制储备液