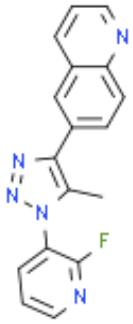
Product Data Sheet

Cas No.:	864863-72-9	Cat. No:	PL07139
Product Name:	FPTQ		
Product synonym:	FPTQ		
Chemical name:	FPTQ		
MF:	C17H12FN5	FW:	305.309085845947
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax：	-	Formulation：	-
Solubility :			
SMILES :	FC(N=CC=C1)=C1N2N=NC(C3=CC4=C(C=C3)N=CC=C4)=C2C		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

FPTQ 是一种有效的 mGluR1 拮抗剂，抑制人和鼠的 IC50 值分别为 6 nM 和 1.4 nM。FPTQ 具有抗氧化、抗炎作用。

生物活性	FPTQ is potent mGluR 1 antagonist with IC 50 values of 6 nM and 1.4 nM for human and mouse mGluR1 respectively. FPTQ has anti-oxidant and anti-inflammatory effects in vitro and in vivo.
IC50 & Target[1][2]	Human mGluR1 6 nM (IC50) Mouse mGluR1 1.4
体外研究(In Vitro)	FPTQ (0.5-10 μM) does not shows any cytotoxicity was not observed at 0.5, 1, 5, and 10 μM in RAW264.7 macrophage cells. FPTQ (1-20 μM; 24 hours) reduces LPS-induced NO production at > 1 μM FPTQ, and at 10 μM, FPTQ treatment causes a 31% anti-oxidant effect in RAW264.7 macrophage cells. FPTQ (1-20 μM; 24 hours) dramaticly decreases LPS-induced expression levels of IL-1β and Il-6. At a concentration of 10 μM, FPTQ causes a 27% and 44% reduction in the mRNA expression of IL-1β and Il-6, respectively in RAW264.7 macrophage cells. has not independently confirmed the accuracy of these methods. They are for reference only.

体内研究(In Vivo)	FPTQ (5-20 μM) decreases the number of neutrophils migrating to the amputation site in zebrafish larvae by tail amputation. In the tailfin wound method, the number of neutrophils collecting at the wound site also decreases in a dose-dependent manner in zebrafish. In a LPS-induced inflammation zebrafish model, LPS solution is injected into the yolks of Tg(mpx:EGFP) zebrafish larvae and exposed the zebrafish larvae immediately to FPTQ treatment. FPTQ (20 μM; 4 hours) significantly decreases the fluorescent neutrophils after yolk injection and has an anti-inflammatory effect during the early phase of inflammation. 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 : 33.33 mg/mL (109.17 mM; Need ultrasonic)配制储备液