



Product Name : FPTQ

Synonyms : ——

Cat No. : M22082

**CAS Number** : 1025802-62-3

Molecular Formula : C17H12FN5

Formula Weight : 305.32

Chemical Name : ----

Description

FPTQ is an antagonist of mGluR1.FPTQ is a synthetic isoquinoline derivative. Neutrophils translocation in the zebrafish tail-transected model was inhibited by FPTQ. Neutrophil aggregation was also inhibited by FPTQ in the LPS-stimulated zebrafish model. PDecreased mRNA expression of the pro-inflammatory cytokine genes, interleukin-1 $\beta$  (il-1 $\beta$ ) and interleukin-6 (il-6), was found in zebrafish larvae injected with FPTQ. Additionally, production of nitric oxide was inhibited by FPTQ in

RAW264.7 macrophage cells treated with LPS.?Moreover, the mRNA expression of II-1β and II-6 suppressed by FPTQ treatment in RAW264.7 macrophage cells, and an enzyme immunoassay showed that FPTQ suppressed the secretion of IL-1β and IL-6 in RAW264.7 cells.?These results demonstrate that FPTQ reduced inflammatory responses and, therefore,

suggest that it may be effective as an anti-inflammatory agent.

Pathway : Neuroscience

Target : GluR

Receptor : mGluR1

Solubility : —

SMILES : Cc1c(nnn1-c1cccnc1F)-c1ccc2cccnc2c1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1.Geum Ran Kim, Jung Yoon Yang, Kyu-Seok Hwang, et al. Anti-inflammatory effect of a novel synthetic compound 1-((4-fluorophenyl)thio)isoquinoline in RAW264.7 macrophages and a zebrafish model.[J]. Fish & shellfish immunology, 2019.