

Product Data Sheet

| Cas No.: | 864863-72-9 | Cat. No: | PL07139 | |
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| 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. |
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| IC50 & Target[1][2] | Human mGluR1 6 nM (IC50) Mouse mGluR1 1.4 |
| 体外研究(In Vitro) | FPTQ (0.5-10 μ M) does not shows any cytotoxicity was not observed at 0.5, 1, 5, and 10 μ M in RAW264.7 macrophage cells. FPTQ (1-20 μ M; 24 hours) reduces LPS-induced NO production at > 1 μ M FPTQ, and at 10 μ M, FPTQ treatment causes a 31% anti-oxidant effect in RAW264.7 macrophage cells. FPTQ (1-20 μ M; 24 hours) dramaticly decreases LPS-induced expression levels of IL-1 β and II-6. At a concentration of 10 μ M, FPTQ causes a 27% and 44% reduction in the mRNA expression of IL-1 β and II-6, respectively in RAW264.7 macrophage cells. has not independently confirmed the accuracy of these methods. They are for reference only. |

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| 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. |
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| 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 |