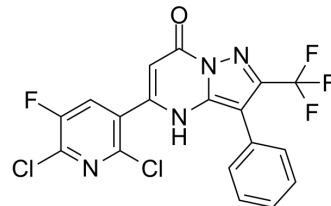


QO 58

| | | | |
|--------------------|--|-------|----------|
| Cat. No.: | HY-110162 | | |
| CAS No.: | 1259536-62-3 | | |
| Molecular Formula: | C ₁₈ H ₈ Cl ₂ F ₄ N ₄ O | | |
| Molecular Weight: | 443.18 | | |
| Target: | Potassium Channel | | |
| Pathway: | Membrane Transporter/Ion Channel | | |
| Storage: | Powder | -20°C | 3 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 62.5 mg/mL (141.03 mM)
 * "≥" means soluble, but saturation unknown.

| Concentration | Solvent | Mass | | |
|---------------------------|---------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 2.2564 mL | 11.2821 mL | 22.5642 mL |
| | 5 mM | 0.4513 mL | 2.2564 mL | 4.5128 mL |
| | 10 mM | 0.2256 mL | 1.1282 mL | 2.2564 mL |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

QO 58 is a potent modulator of K(v)7 channels. QO-58 increases the current amplitudes, shifts the voltage-dependent activation curve in a more negative direction and slows the deactivation of K(v)7.2/K(v)7.3 currents. QO-58 has the potential for the research of diseases associated with neuronal hyperexcitability^[1].

REFERENCES

[1]. Zhang F, et al. Modulation of K(v)7 potassium channels by a novel opener pyrazolo[1,5-a]pyrimidin-7(4H)-one compound QO-58. Br J Pharmacol. 2013;168(4):1030-1042.

Caution: Product has not been fully validated for medical applications. For research use only.

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