

Product Name: QO 58

Catalog No.: 5083

Batch No.: 1

CAS Number: 1259536-62-3

IUPAC Name: 5-(2,6-Dichloro-5-fluoro-3-pyridinyl)-3-phenyl-2-(trifluoromethyl)-pyrazolo[1,5-a]pyrimidin-7(4H)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₈Cl₂F₄N₄O

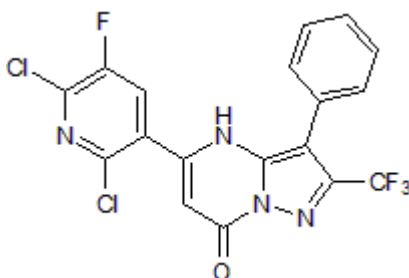
Batch Molecular Weight: 443.18

Physical Appearance: Off White solid

Solubility: DMSO to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.15 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.78	1.82	12.64
Found	48.72	1.7	12.57

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Description:

K_v7 channel opener (EC₅₀ values are 0.6, 1.0, 5.2 and 7.0 μM for K_v7.4, K_v7.2, K_v7.3/7.5 and K_v7.1, respectively). Increases the pain threshold of neuropathic pain in a sciatic nerve CCI in vivo model.

Physical and Chemical Properties:

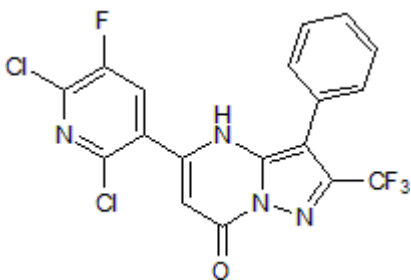
Batch Molecular Formula: C₁₈H₈Cl₂F₄N₄O

Batch Molecular Weight: 443.18

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Zhang et al (2013) Modulation of K_v7 potassium channels by a novel opener pyrazolo[1,5-a]pyrimidin-7(4H)-one compound QO-58. *Br.J.Pharmacol.* **168** 1030. PMID: 23013484.

Qi et al (2011) Design, synthesis and biological activity of pyrazolo[1,5-a]pyrimidin-7(4H)-ones as novel K_v7/KCNQ potassium channel activators. *Eur.J.Med.Chem.* **46** 934. PMID: 21296466.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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