

Product Name: Pyr 10

Catalog No.: 6941

Batch No.: 1

CAS Number: 1315323-00-2

IUPAC Name: *N*-[4-[3,5-bis(Trifluoromethyl)-1*H*-pyrazol-1-yl]phenyl]-4-methylbenzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₃F₆N₃O₂S.

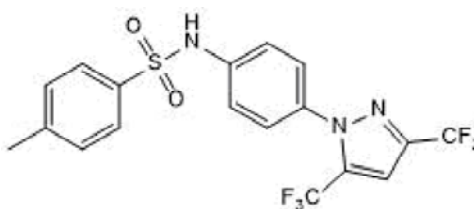
Batch Molecular Weight: 449.37

Physical Appearance: White solid

Solubility: ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	48.11	2.92	9.35
Found	48.02	2.8	9.36

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Pyr 10 is a TRPC3 (transient receptor potential canonical 3) channel inhibitor ($IC_{50} = 0.72 \mu\text{M}$ for TRPC3 mediated calcium entry in vitro), which displays approximately 18-fold selectivity for TRPC3-mediated receptor operated calcium entry (ROCE) over STIM1/Orai1-mediated store operated calcium entry (SOCE). Pyr 10 inhibits NFATc3 activation and inhibits proliferation of rat ventricular cardiac fibroblasts.

Physical and Chemical Properties:

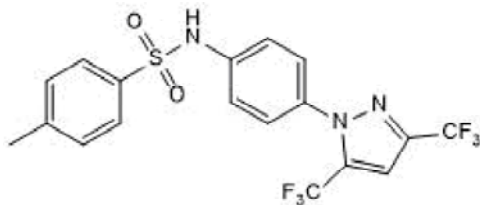
Batch Molecular Formula: $C_{18}H_{13}F_6N_3O_2S$.

Batch Molecular Weight: 449.37

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

ethanol to 100 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 $45\text{-}60^{\circ}\text{C}$ 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.

References:

Saliba *et al* (2019) Transient receptor potential canonical 3 and nuclear factor of activated T cells C3 signaling pathway critically regulates myocardial fibrosis. *Antioxid.Redox.Signal.* **30** 1851. PMID: 30318928.

Schleifer *et al* (2012) Novel pyrazole compounds for pharmacological discrimination between receptor-operated and store-operated Ca^{2+} entry pathways. *Br.J.Pharmacol.* **167** 1712. PMID: 22862290.

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