

Product Name: Pyr3

Catalog No.: 3751

Batch No.: 1

CAS Number: 1160514-60-2

IUPAC Name: 1-[4-[(2,3,3-Trichloro-1-oxo-2-propen-1-yl)amino]phenyl]-5-(trifluoromethyl)-1*H*-pyrazole-4-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₁Cl₃F₃N₃O₃

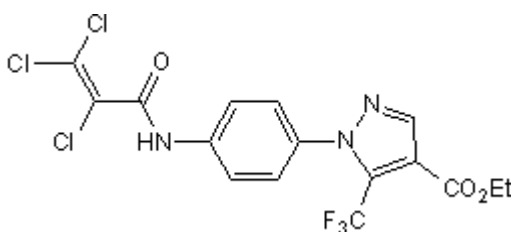
Batch Molecular Weight: 456.63

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.35 (Ethyl acetate:Petroleum ether [2:8])

HPLC: Shows 98.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	42.08	2.43	9.2
Found	42.04	2.43	9.07

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Description:

Selective antagonist of the canonical transient receptor potential channel 3 (TRPC3). Inhibits TRPC3-mediated Ca²⁺ influx (IC₅₀ = 0.7 μM) and suppresses activation of nuclear factor of activated T cells (NFAT). Inhibits hypertrophic responses in cardiomyocytes.

Physical and Chemical Properties:

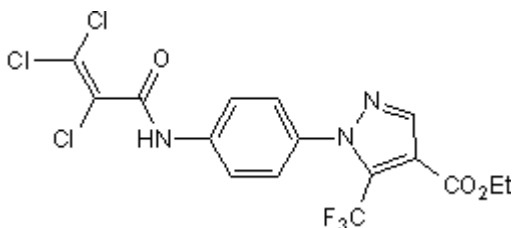
Batch Molecular Formula: C₁₆H₁₁Cl₃F₃N₃O₃

Batch Molecular Weight: 456.63

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

This product may degrade over time when stored in solution and we therefore recommend that solutions are routinely prepared, aliquoted and used as quickly as possible.

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.

References:

Kiyonaka et al (2009) Selective and direct inhibition of TRPC3 channels underlies biological activities of a pyrazole compound. *Proc.Natl.Acad.Sci.* **106** 5400.

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