

**Product Name:** Pyr3

**Catalog No.:** 3751

**Batch No.:** 5

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:** C<sub>16</sub>H<sub>11</sub>Cl<sub>3</sub>F<sub>3</sub>N<sub>3</sub>O<sub>3</sub>

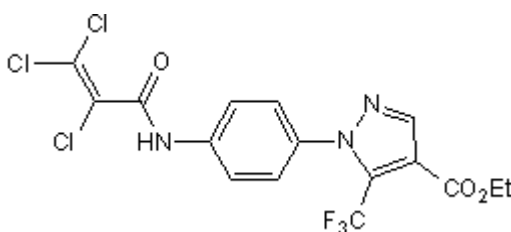
**Batch Molecular Weight:** 456.63

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.4 (Ethyl acetate:Petroleum ether [4:1])

**HPLC:** Shows >99.6% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	42.09	2.43	9.2
Found	42.15	2.54	8.94

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**Description:**

Selective antagonist of the canonical transient receptor potential channel 3 (TRPC3). Inhibits TRPC3-mediated Ca<sup>2+</sup> influx (IC<sub>50</sub> = 0.7 μM) and suppresses activation of nuclear factor of activated T cells (NFAT). Inhibits hypertrophic responses in cardiomyocytes.

**Physical and Chemical Properties:**

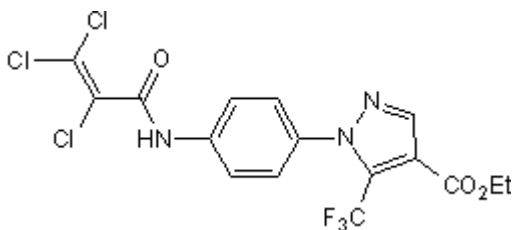
Batch Molecular Formula: C<sub>16</sub>H<sub>11</sub>Cl<sub>3</sub>F<sub>3</sub>N<sub>3</sub>O<sub>3</sub>

Batch Molecular Weight: 456.63

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**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.

**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.

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