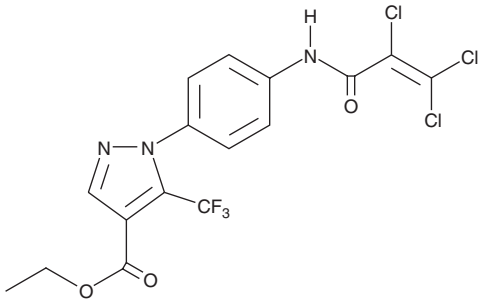
PRODUCT INFORMATION

Pyr3

Item No. 16888

CAS Registry No.:	1160514-60-2
Formal Name:	1-[4-[(2,3,3-trichloro-1-oxo-2-propen-1-yl)amino]phenyl]-5-(trifluoromethyl)-1H-pyrazole-4-carboxylic acid, ethyl ester
MF:	$C_{16}H_{11}Cl_3F_3N_3O_3$
FW:	456.6
Purity:	≥98%
UV/Vis.:	λ_{max}: 210, 270 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Pyr3 is supplied as a crystalline solid. A stock solution may be made by dissolving the Pyr3 in the solvent of choice, which should be purged with an inert gas. Pyr3 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of Pyr3 in these solvents is approximately 10, 20, and 50 mg/ml, respectively.

Description

Pyr3 is a pyrazole compound that selectively antagonizes the transient receptor potential canonical channel 3 (TRPC3).[1] It inhibits TRPC3-mediated Ca^{2+} influx with an IC_{50} value of 0.7 µM without effect on other TRPC members and suppresses activation of nuclear factor of activated T cells with an IC_{50} value of 0.05 µM.[1] Pyr3 has been shown to suppress cardiac hypertrophy in mice at 0.1 mg/kg/day.[1]

Reference

1. Kiyonaka, S., Kato, K., Nishida, M., *et al*. Selective and direct inhibition of TRPC3 channels underlies biological activities of a pyrazole compound. *Proc. Natl. Acad. Sci. USA* **106(13)**, 5400-5405 (2009).

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