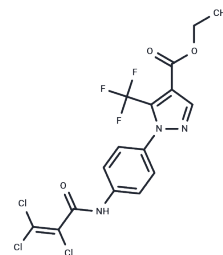


Pyr3

Chemical Properties

CAS No. :	1160514-60-2
Formula:	C ₁₆ H ₁₁ Cl ₃ F ₃ N ₃ O ₃
Molecular Weight:	456.63
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Pyr3 is a selective transient receptor potential canonical channel 3 inhibitor. Pyr3 inhibits TRPC3-mediated Ca ²⁺ influx in a dose-dependent manner (IC ₅₀ = 700 nM).
Targets(IC ₅₀)	TRP/TRPV Channel
In vitro	Pyr3 becomes apparent at 0.3 μM and is almost complete at 3 μM. Ca ²⁺ influx is inhibited by Pyr3 in cells co-expressing TRPC3 plus TRPC6 but not in cells co-expressing TRPC1 plus TRPC5. The Ang II-induced NFAT translocation is suppressed by Pyr3 (IC ₅₀ = 0.05 μM), but weakly by Pyr2 (IC ₅₀ = 2 μM) in a concentration-dependent manner[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (219 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (8.76 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.190 mL	10.9498 mL	21.8996 mL
5 mM	0.438 mL	2.190 mL	4.3799 mL
10 mM	0.219 mL	1.095 mL	2.190 mL
50 mM	0.0438 mL	0.219 mL	0.438 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kiyonaka S, et al. Selective and direct inhibition of TRPC3 channels underlies biological activities of a pyrazole compound. Proc Natl Acad Sci U S A. 2009 Mar 31;106(13):5400-5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481