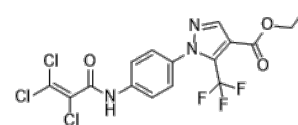


Product Name : Pyr3
Cat. No. : PC-23550
CAS No. : 1160514-60-2
Molecular Formula : C₁₆H₁₁Cl₃F₃N₃O₃
Molecular Weight : 456.63
Target : TRP Channel
Solubility : 10 mM in DMSO



Biological Activity

Pyr3 is a potent, selective inhibitor of transient receptor potential canonical channel 3 (TRPC3) with IC₅₀ of 700 nM for inhibition of TRPC3-mediated Ca²⁺ influx.

Pyr3 shows no effect on Ca²⁺ influx mediated by other TRPC members, Ca²⁺ responses in the absence of extracellular Ca²⁺, and the control basal [Ca²⁺]_i levels.

Pyr3 potently eliminates the Ca²⁺ influx-dependent PLC translocation to the plasma membrane and late oscillatory phase of B cell receptor-induced Ca²⁺ response in DT40 B lymphocytes.

Pyr3 attenuates activation of nuclear factor of activated T cells, a Ca²⁺-dependent transcription factor, and hypertrophic growth in rat neonatal cardiomyocytes, and in vivo pressure overload-induced cardiac hypertrophy in mice.

References

Kiyonaka S, et al. Proc Natl Acad Sci U S A. 2009 Mar 31;106(13):5400-5.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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