

Certificate of Analysis

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Product Name: TRAM 34

Catalog No.: 2946

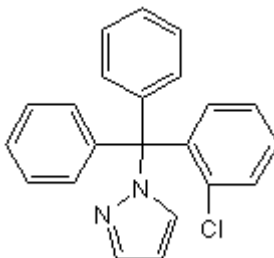
Batch No.: 2

CAS Number: 289905-88-0

IUPAC Name: 1-[(2-Chlorophenyl)diphenylmethyl]-1*H*-pyrazole

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₂ H ₁₇ ClN ₂
Batch Molecular Weight:	344.84
Physical Appearance:	White solid
Solubility:	DMSO to 10 mM with gentle warming ethanol to 5 mM with sonication
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.4 (Ethyl acetate:Petroleum ether [95:5])
HPLC:	Shows 99.9% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	76.63	4.97	8.12
Found	76.59	4.99	8.13

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Potent and highly selective blocker of intermediate conductance Ca²⁺-activated K⁺ channels (K_{Ca}3.1) (K_d = 20 nM). Exhibits 200-1500-fold selectivity over K_v, BK_{Ca}, K_{Ca}2, Na⁺, CRAC and Cl⁻ channels. Suppresses the reactivation of lymphocytes by mitogenic stimuli.

Physical and Chemical Properties:

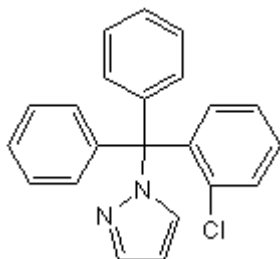
Batch Molecular Formula: C₂₂H₁₇ClN₂

Batch Molecular Weight: 344.84

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Wulff *et al* (2000) Design of a potent and selective inhibitor of the intermediate-conductance Ca²⁺-activated K⁺ channel, IKCa1: a potential immunosuppressant. *Proc.Natl.Acad.Sci. USA* **97** 8151.

Schilling and Eder (2007) TRAM-34 inhibits nonselective cation channels. *Pflugers Arch.* **454** 559. PMID: 17318643.

Wang *et al* (2007) An intermediate-conductance Ca²⁺-activated K⁺ channel mediates B lymphoma cell cycle progression induced by serum. *Pflugers Arch.* **454** 945. PMID: 17429684.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 10 mM with gentle warming
ethanol to 5 mM with sonication

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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