

Product Name: TRAM 39

Catalog No.: 4952

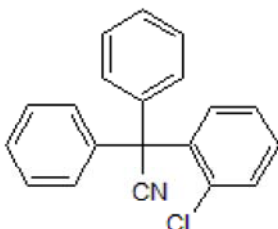
Batch No.: 1

CAS Number: 197525-99-8

IUPAC Name: 2-Chloro- α,α -diphenylbenzeneacetonitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₄ClN
Batch Molecular Weight: 303.78
Physical Appearance: Yellow solid
Solubility: DMSO to 50 mM
ethanol to 10 mM with gentle warming
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.55 (Ether:Petroleum ether [10:1])
HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	79.07	4.65	4.61
Found	78.91	4.58	4.71

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

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CAS Number: 197525-99-8

IUPAC Name: 2-Chloro- α,α -diphenylbenzeneacetonitrile

Description:

Potent intermediate conductance Ca^{2+} -activated K^+ channel ($\text{K}_{\text{Ca}3.1}$) blocker ($\text{K}_d = 60 \text{ nM}$). Has no effect on cytochrome p450 activity. Inhibits I-EBIO-stimulated increases in rat artery membrane potential *ex vivo*. Also diminishes LPS-induced cryptidin (mammalian α -defensin) release from paneth cells in *vitro*.

Physical and Chemical Properties:

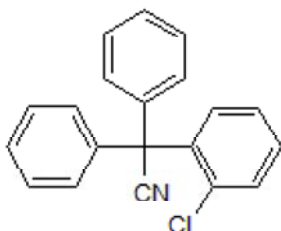
Batch Molecular Formula: $\text{C}_{20}\text{H}_{14}\text{ClN}$

Batch Molecular Weight: 303.78

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 10 mM with gentle warming

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.

References:

Burnham *et al* (2006) Impaired small-conductance Ca^{2+} -activated K^+ channel-dependent EDHF responses in Type II diabetic ZDF rats. *Br.J.Pharmacol.* **148** 434. PMID: 16682967.

Ayabe *et al* (2002) Modulation of mouse Paneth cell alpha-defensin secretion by mIKCa1, a Ca^{2+} -activated, intermediate conductance potassium channel. *J.Biol.Chem.* **277** 3793. PMID: 11724775.

Wulff *et al* (2000) Design of a potent and selective inhibitor of the intermediate-conductance Ca^{2+} -activated K^+ channel, $\text{IK}_{\text{Ca}1}$: a potential immunosuppressant. *Proc.Natl.Acad.Sci.U.S.A.* **97** 8151. PMID: 10884437.

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