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DATASHEET

TRAM 34

Product overview

Name	TRAM 34
Cat No	HB1058
Biological action	Blocker
Purity	>99%
Description	Potent, selective K _{Ca} 3.1 channel blocker

Images



Biological Data

Biological description

Potent and selective K_{Ca}3.1 channel blocker ($IC_{50} = 18$ nM and $K_d = 20$ nM). Exhibits approx 200 to 1,500-fold less effect at K_V1.1-1.5, K_V3.1, K_V4.2, K_{ir}2.1 and K_{Ca}1.1 channels. Displays anti-tumor properties and suppresses T-cell mitogenesis. Blood brain barrier and membrane permeable.

Solubility & Handling

Storage instructions

+4°C

Solubility overview

Soluble in DMSO (50mM) or ethanol (10mM)

Important

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

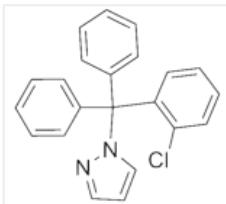
Chemical name

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

Molecular Weight

344.84

Chemical structure



Molecular Formula

C₂₂H₁₇ClN₂

CAS Number	289905-88-0
PubChem identifier	656734
SMILES	C1=C(C=C1)=C2C(N2C=CC=N2)(C3=CC=CC=C3)C1=CC=CC=C1
InChIKey	KBFUQVFYBHBT-UHFFFAOYSA-N

References

The inhibitor of Ca(2+)-dependent K⁺ channels TRAM-34 blocks growth of hepatocellular carcinoma cells via downregulation of estrogen receptor alpha mRNA and nuclear factor-kappaB.

Freise C et al (2013) Invest New Drugs 31(2)

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The KCa3.1 blocker TRAM-34 reduces infarction and neurological deficit in a rat model of ischemia/reperfusion stroke.

Chen YJ et al (2011) J Cereb Blood Flow Metab 31(12)

PubMedID 21750563

The intermediate-conductance calcium-activated potassium channel KCa3.1 contributes to atherosclerosis in mice and humans.

Toyama K et al (2008) J Clin Invest 118(9)

PubMedID 18688283

Design of a potent and selective inhibitor of the intermediate-conductance Ca²⁺-activated K⁺ channel, IKCa1: a potential immunosuppressant.

Wulff H et al (2000) Proc Natl Acad Sci U S A 97(14)

PubMedID 10884437