

Product Datasheet

TRAM 39

Catalog No. **BP-02436** · CAS **197525-99-8** · Form **free base** · Physical state **solid** · Color **Off-white to light yellow** · Version **1.0** · Revision **2026-09-11**

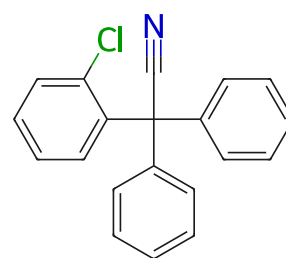
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Target Potassium Channel	Research area Neurological Disease
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Molecular formula **C₂₀H₁₄ClN**

Molecular weight **303.7850**

STRUCTURE



DESCRIPTION

TRAM-39 is a selective blocker of intermediate conductance Ca²⁺-activated K⁺ (IKCa) channels. TRAM-39 inhibits KCa3.1 channel with an IC₅₀ value of 60 nM. TRAM-39 can be used for the research of ataxia, epilepsy, memory disorders, schizophrenia and Parkinson's disease .

BIOLOGICAL ACTIVITY

In Vitro

TRAM-39 (1 μM) reduces the peak amplitude of gKCa2 in sympathetic LAH neurons (mean percentage change 56%) in BAE cells.

TRAM-39 (200 nM) diminishes lipopolysaccharide (LPS)-induced cryptdin release from paneth cells.

In Vivo

TRAM-39 (1 μM; adds to the perfusate) fully blocks all IKCa channels in multicellular preparations.

SOLUBILITY

Soluble in DMSO : 50 mg/mL

REFERENCES

- [1].Davies PJ, et al. Different types of potassium channels underlie the long afterhyperpolarization in guinea-pig sympathetic and enteric neurons. Auton Neurosci. 2006 Jan 30;124(1-2):26-30.
- [2].Burnham MP, et al. Impaired small-conductance Ca²⁺-activated K⁺ channel-dependent EDHF responses in Type II diabetic ZDF rats. Br J Pharmacol. 2006 Jun;148(4):434-41.
- [3].Ayabe T, et al. Modulation of mouse Paneth cell alpha-defensin secretion by mIKCa1, a Ca²⁺-activated, intermediate conductance potassium channel. J Biol Chem. 2002 Feb 1;277(5):3793-800.

[4].Wulff H, et al. Modulators of small- and intermediate-conductance calcium-activated potassium channels and their therapeutic indications. Curr Med Chem. 2007;14(13):1437-57.

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