

Data Sheet

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Product Name:Tamapin TFACat. No.:PC-21845CAS No.::Molecular Formula::Molecular Weight::Molecular Weight::Target::Solubility::

Ala-Phe-Cys-Asn-Leu-Arg-Arg-Cys-Glu-Leu-Ser-Cys-Arg-Ser-Leu-Gly-Leu-Cys-Val-Pro-Tyr-NH2 (Disulfide bridge: Cys3-Cys21, Cys8-Cys26, Cys12-Cys28)

Biological Activity

Tamapin TFA salt is a venom peptide from the Indian red scorpion (Mesobuthus tamulus), potent and selective inhibitor of small conductance calcium-activated potassium channel 2 (SK2, KCNN2) with IC50 of 24 pM.

Tamapin displays remarkable selectivity for SK2 versus SK1 (approximately 1750-fold) and SK3 (approximately 70-fold) channels.

Tamapin mitigates physiological abnormalities in reporter-positive neurons in PAE mice.

Tamapin improves impaired motor skill learning in PAE mice.

Tamapin reverses learning deficits in a mouse model of fetal alcohol spectrum disorders.

References

Pedarzani P, et al. J Biol Chem. 2002 Nov 29;277(48):46101-9.

Caution: Product has not been fully validated for medical applications. Lab Use Only! E-mail: tech@probechem.com