Datasheet for ABIN1540130

Tamapin

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Overview

Quantity:	0.1 mg
Target:	Tamapin
Application:	Blocking Reagent (BR)

Product Details

Purpose:	Tamapin is a SK channel inhibitor
Sequence:	Ala-Phe-Cys3-Asn-Leu-Arg-Arg-Cys8-Glu-Leu-Ser-Cys12-Arg-Ser-Leu-Gly-Leu-Leu-Gly-Lys-Cys21-Ile-Gly-Glu-Glu-Cys26-Lys-Cys28-Val-Pro-Tyr-NH2Disulfide bridges: Cys3-Cys21, Cys8-Cys26, Cys12-Cys28

Target Details

Target:	Tamapin
Background:	Tamapin is a peptide toxin isolated from the venom of the Indian red scorpion Mesobuthus Tamulus. Tamapin is amidated at its C-terminal tyrosine residue (contrary to recombinant tamapin, Smartox' tamapin is amidated). It binds to small conductance Ca2+-activated K+ channels (SK channels) with high affinity and inhibits SK channel-mediated currents in pyramidal neurons of the hippocampus as well as in cell lines expressing distinct SK channel subunits. Tamapin is an excellent toxin to discriminate among SK channel subtypes because it presents different affinities for SK1 (42 nM), SK2 (24 pM) and SK3 (1.7 nM) channels. This toxin is also the most potent SK2 channel blocker characterized so far (IC50 for SK2 channels = 24 pM).
Molecular Weight:	3459 Da

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Application Details

Restrictions:	For Research Use only

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