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DATASHEET

tatM2NX

Product overview

Name	tatM2NX
Cat No	HB7349
Biological description	Novel, potent and cell permeable TRPM2 antagonist (IC_{50} = 396nM). Prevents ligand binding and TRPM2 activation. Inhibits over 90% of human TRPM2 channel currents at concentrations as low as 2 µM. Shows neuroprotective effects in animal models of focal and global ischemia. Active *in vivo*.
Biological action	Antagonist
Purity	>93%
Description	TRPM2 antagonist. Cell permeable.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in aqueous buffer
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

Molecular Weight	4354.17
Molecular Formula	$C_{190}H_{323}N_{71}O_{45}S$
Sequence (one letter)	YGRKKRRQRRRGSREPGEMLPRKLKRVLRQEFWV
Sequence (three letter)	H-Tyr-Gly-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-Arg-Gly-Ser-Arg-Glu-Pro-Gly-Glu-Met-Leu-Pro-Arg-Lys-Leu-Lys-Arg-Val-Leu-Arg-Gln-Glu-Phe-Trp-Val-OH

References

Extended therapeutic window of a novel peptide inhibitor of TRPM2 channels following focal cerebral ischemia.

Shimizu T et al (2016) Experimental neurology 283
PubMedID 27317297

Characterization and Optimization of the Novel Transient Receptor Potential Melastatin 2 Antagonist tatM2NX.

Cruz-Torres I et al (2020) Molecular pharmacology 97
PubMedID 31772034