
Product Name	: tatM2NX	YGRKKRRQRRRGSREPGEMLPR KLKRVLRQEFVW
Cat. No.	: PC-72122	
CAS No.	: 2126166-03-6	
Molecular Formula	: C ₁₉₀ H ₃₂₃ N ₇₁ O ₄₅ S	
Molecular Weight	: 4354.11	
Target	: TRP Channel	
Solubility	: 10 mM in DMSO	

Biological Activity

tatM2NX is a novel potent, selective, cell permeable, peptide **TRPM2** channel antagonist with IC₅₀ of 396 nM, IC₉₀ of 2 μM (TRPM2 channel currents), prevents ligand binding and TRPM2 activation.

tatM2NX interacts with the ADPR binding site on the NUT9-H domain of TRPM2 channel. tatM2NX inhibits TRPM2-mediated dephosphorylation of GSK3β (activation), tatM2NX demonstrated selective neuroprotective effects in a mouse model of focal ischemia (stroke).

References

Cruz-Torres I, et al. *Mol Pharmacol*. 2020 Feb;97(2):102-111.

Dietz RM, et al. *Transl Stroke Res*. 2020 Apr;11(2):254-266.

Dietz RM, et al. *Neural Plast*. 2021 Oct 6;2021:8774663.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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