PRODUCT INFORMATION



Tat-ASIC1a (1-20) (mouse, rat) (trifluoroacetate salt)

Item No. 37501

Synonyms:	NT1-20, Tat-Acid-sensing Ion Channel 1a (1-20)	
replice Sequence.		H-Gly-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-Arg-
MF:	$C_{150}H_{265}N_{55}O_{47}S_2 \bullet XCF_3COOH$	Cvs-Met-Glu-Leu-Lvs-Thr-Glu-Glu-Glu-Glu-
FW:	3,655.2	Val Chy Chy Val Cha Bra Val Sar IIa-Gha-
Purity:	≥95%	
Supplied as:	A solid	Ala—OH
Storage:	-20°C	• XCF ₃ COOH
Stability:	≥4 years	
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.		

Laboratory Procedures

Tat-ASIC1a (1-20) (mouse, rat) (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the Tat-ASIC1a (1-20) (mouse, rat) (trifluoroacetate salt) in water. We do not recommend storing the aqueous solution for more than one day.

Description

Tat-ASIC1a (1-20) is a synthetic peptide composed of the cell-penetrating peptide sequence from the HIV-1 Tat protein transduction domain linked to a 20-amino acid peptide corresponding to amino acids 1-20 of acid-sensing ion channel 1a (ASIC1a).¹ It prevents acid-induced association of ASIC1a with receptor-interacting serine/threonine kinase 1 (RIPK1) and necroptosis in primary mouse cortical neurons when used at a concentration of 10 μ M. Tat-ASIC1a (1-20) decreases infarct volume in a mouse model of ischemia induced by middle cerebral artery occlusion (MCAO).

Reference

1. Wang, J.-J., Liu, F., Yang, F., et al. Disruption of auto-inhibition underlies conformational signaling of ASIC1a to induce neuronal necroptosis. Nat. Commun. 11(1), 475 (2020).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFFTY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

uver agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 12/21/2023

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897 [734] 971-3335 FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.CAYMANCHEM.COM