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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



¹⁰Panx (trifluoroacetate salt)

Item No. 36867

Formal Name: L-tryptophyl-L-arginyl-L-glutaminyL-L-alanyl-L-alanyl-L-phenylalanyl-L-valyl-L-α-aspartyl-L-seryl-L-tyrosine, trifluoroacetate salt

Synonyms: ¹⁰Panx1, WRQAAFVDSY

MF: C₅₈H₇₉N₁₅O₁₆ • XCF₃COOH

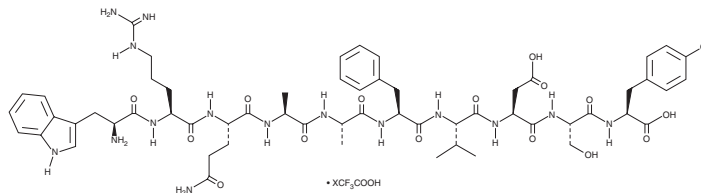
FW: 1,242.3

Purity: ≥98%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

¹⁰Panx (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the ¹⁰Panx (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. ¹⁰Panx (trifluoroacetate salt) is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of ¹⁰Panx (trifluoroacetate salt) in these solvents is approximately 2 and 5 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of ¹⁰Panx (trifluoroacetate salt) can be prepared by directly dissolving the solid in aqueous buffers. The solubility of ¹⁰Panx (trifluoroacetate salt) in PBS (pH 7.2) is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

¹⁰Panx is a peptide mimetic of the pannexin 1 (PANX1) ectodomain and inhibitor of PANX1, an innexin family gap domain protein and component of membrane channels.¹ It inhibits purinergic P2X₇ receptor activation-induced dye uptake, constitutive dye uptake, and hemichannel currents, as well as ATP-induced caspase activation and IL-1β release in HEK293 cells when used at a concentration of 200 μM. ¹⁰Panx inhibits pannexin channel currents and connexin 46 channel currents in *Xenopus* oocytes expressing the human channels.²

References

1. Pelegrin, P. and Surprenant, A. Pannexin-1 mediates large pore formation and interleukin-1β release by the ATP-gated P2X₇ receptor. *EMBO J.* **25(21)**, 5071-5082 (2006).
2. Wang, J., Ma, M., Locovei, S., et al. Modulation of membrane channel currents by gap junction protein mimetic peptides: Size matters. *Am. J. Physiol. Cell Physiol.* **293(3)**, C1112-C1119 (2007).

WARNING

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

SAFETY 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.

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