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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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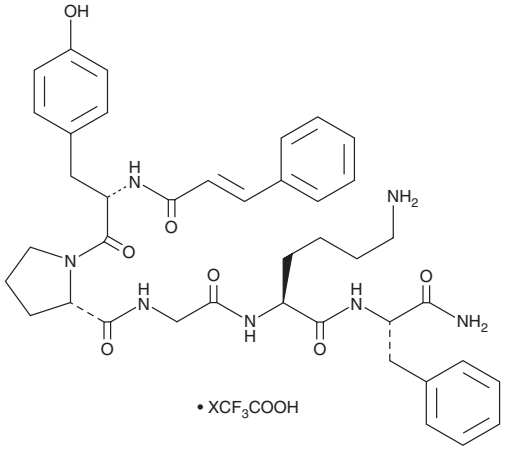
PRODUCT INFORMATION

tcY-NH_2 (trifluoroacetate salt)

Item No. 36758



Formal Name:	(S)-N-(2-(((S)-6-amino-1-(((S)-1-amino-1-oxo-3-phenylpropan-2-yl)amino)-1-oxohexan-2-yl)amino)-2-oxoethyl)-1-(cinnamoyl-L-tyrosyl)pyrrolidine-2-carboxamide, trifluoroacetate salt
Synonyms:	tc-YPGKF-NH_2, *trans*-cinnamoyl-YPGKF-amide, *trans*-cinnamoyl-YPGKF-NH_2
MF:	$C_{40}H_{49}N_7O_7 \bullet XCF_3COOH$
FW:	739.9
Purity:	≥98%
UV/Vis.:	λ_{max}: 282 nm
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

tcY-NH_2 (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the tcY-NH_2 (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. tcY-NH_2 (trifluoroacetate salt) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of tcY-NH_2 (trifluoroacetate salt) in these solvents is approximately 33, 10, and 12 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 tcY-NH_2 (trifluoroacetate salt) can be prepared by directly dissolving the solid in aqueous buffers. The solubility of tcY-NH_2 (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

tcY-NH_2 is a synthetic peptide antagonist of proteinase-activated receptor 4 (PAR4) that corresponds to amino acids 1-6 of the amino terminal tethered ligand sequence of mouse PAR4.[1] It inhibits platelet aggregation induced by the PAR4 agonist AYPGKF-NH_2 (Item No. 24258) in washed isolated rat platelets (IC_{50} = 95-190 µM), as well as induces relaxation of isolated rat aortic rings precontracted with phenylephrine and contraction of isolated rat gastric longitudinal muscle strips (EC_{50}s = 64 and 1 µM, respectively). tcY-NH_2 (400 µM) inhibits thrombin-induced migration of primary hepatocellular carcinoma (HCC) cells.[2] It reduces myocardial infarct size as a percentage of the area at risk *ex vivo* in a isolated rat heart model of ischemia-reperfusion injury.[3]

References

1. Hollenberg, M.D., Saifeddine, M., Sandhu, S., *et al. Br. J. Pharmacol.* **143(4),** 443-454 (2004).
2. Kaufmann, R., Rahn, S., Pollrich, K., *et al. J. Cell. Physiol.* **211(3),** 699-707 (2007).
3. Strande, J.L., Hsu, A., Su, J., *et al. J. Pharmacol. Exp. Ther.* **324(3),** 1045-1054 (2008).

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