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## Product Information

### trans-cinnamoyl-Tyr-Pro-Gly-Lys-Phe-amide

trifluoroacetate salt  
Product Number **C 7363**  
Storage Temperature  $-20\text{ }^{\circ}\text{C}$

Cas #: 327177-34-4

Synonyms: YPGKF-NH<sub>2</sub>, tcY-NH<sub>2</sub>

#### Product Description

Molecular Formula: C<sub>40</sub>H<sub>50</sub>N<sub>7</sub>O<sub>7</sub>  
Molecular Weight: 740.9

trans-cinnamoyl-Tyr-Pro-Gly-Lys-Phe-amide is a selective proteinase-activated receptor 4 (PAR4) agonist peptide, which may be used for probing PAR4 signaling in culture systems and in platelets.<sup>1,2</sup> trans-cinnamoyl-Tyr-Pro-Gly-Lys-Phe-amide blocks platelet aggregation<sup>3</sup> and also inhibits endostatin release.<sup>4</sup>

#### Reagent

trans-cinnamoyl-Tyr-Pro-Gly-Lys-Phe-amide is supplied as a solid.

Purity:  $\geq 98\%$  (HPLC)

#### Precautions and Disclaimer

For R & D use only. Not for drug, household or other uses.

Consult the MSDS for information regarding hazards and safe handling practices.

#### Preparation Instructions

trans-cinnamoyl-Tyr-Pro-Gly-Lys-Phe-amide is soluble in water and acetonitrile (80:20).

#### Storage/Stability

Store at  $-20\text{ }^{\circ}\text{C}$ .

#### References

1. Faruqi TR, et al., Structure-function analysis of protease-activated receptor 4 tethered ligand peptides. Determinants of specificity and utility in assays of receptor function. *J. Biol. Chem.*, **275**, 19728-19734 (2000).
2. Hollenberg, M.D., and Compton, S.J., International Union of Pharmacology. XXVIII. Proteinase-activated receptors. *Pharmacol. Rev.*, **54**, 203-217 (2002).
3. Hollenberg, M.D., and Saifeddine, M., Proteinase-activated receptor 4 (PAR4): activation and inhibition of rat platelet aggregation by PAR4-derived peptides. *Can. J. Physiol. Pharmacol.*, **79**, 439-442 (2001).
4. Ma, L., et al., Thrombin-induced platelet endostatin release is blocked by a proteinase-activated receptor 4 (PAR4) antagonist. *Br. J. Pharmacol.*, **134**, 701-704 (2001).

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