# Data Sheet

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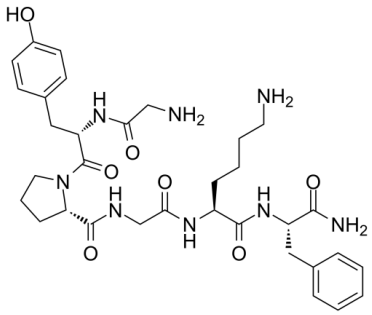
|---|---|
| **Product Name:** | Protease-Activated Receptor-4 |
| **Cat. No.:** | CS-7046 |
| **CAS No.:** | 245443-52-1 |
| **Molecular Formula:** | C33H46N8O7 |
| **Molecular Weight:** | 666.77 |
| **Target:** | Protease-Activated Receptor (PAR) |
| **Pathway:** | GPCR/G Protein |
| **Solubility:** | H2O : 50 mg/mL (74.99 mM; Need ultrasonic) |



## BIOLOGICAL ACTIVITY:

Protease-Activated Receptor-4 is the agonist of **proteinase-activated receptor-4 (PAR4)**. Sequence: Gly-Tyr-Pro-Gly-Lys-Phe-NH2. **In Vitro:** GYPGKF-NH2 significantly reduces the agonistic potency of AYPGKF-NH2 by 25-fold[1]. GYPGKF-NH2 (500 μM) does not cause contraction or relaxation of the guinea pig IAS strips[2].

## References:

[1]. Moschonas IC, et al. Molecular requirements involving the human platelet protease-activated receptor-4 mechanism of activation by peptide analogues of its tethered-ligand. Platelets. 2017 Mar 7:1-10. doi: 10.1080/09537104.2017.1282607. [Epub ahead of print]

[2]. Huang SC, et al. Proteinase-activated receptor-1 (PAR1) and PAR2 mediate relaxation of guinea pig internal anal sphincter. Regul Pept. 2014 Feb 10;189:46-50.

## CAIndexNames:

L-Phenylalaninamide, glycyl-L-tyrosyl-L-prolylglycyl-L-lysyl-

## SMILES:

O=C(N)[C@H](CC1=CC=CC=C1)NC([C@H](CCCCN)NC(CNC([C@H]2N(C([C@H](CC3=CC=C(C=C3)O)NC(CN)=O)=O)CCC2)=O)=O)=O

**Caution: Product has not been fully validated for medical applications. For research use only.**

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