

Thrombin Receptor Agonist Peptide

Subcategory: Synthetic Peptide

Cat. No.: 350404

Unit: 1 mg

Description:

Thrombin signaling of platelets is mediated by a G protein-coupled protease-activated receptor (PAR). The PAR is activated after thrombin binding and subsequent cleavage of the amino terminal end of the receptor. This new amino terminus acts as a tethered ligand and binds intramolecularly to the body of the PAR, resulting in a transmembrane signal. Synthetic thrombin receptor agonist peptides (TRAP) of 6 residues (SFLLRN) and 14 residues (SFLLRNPNDKYEPF), respectively corresponding to aa42-47 and aa42-55 of the human thrombin receptor were found to be as effective as thrombin for Ca²⁺ mobilization. It was also shown that these peptides are far less active on pig and guinea pig platelets, whereas completely inactive on rat and rabbit platelets.

Format: Each vial contains 1 mg of lyophilized solid packaged under an inert gas and supplied as a trifluoroacetate salt.

Alternate Names: Thrombin Receptor Agonist Peptide; TRAP; Proteinase-activated receptor 1; PAR-1; Thrombin receptor; Coagulation factor II receptor; F2R; CF2R; PAR1; TR

Accession No.: P25116

MW: 1739.96 g/mol

Sequence: Human: H-Ser-Phe-Leu-Leu-Arg-Asn-Pro-Asn-Asp-Lys-Tyr-Glu-Pro-Phe-OH or H-SFLLRNPNDKYEPF-OH

Composition: C81H118N20O23

Purity: Purity > 95% by HPLC

Solubility: Distilled water for a solution up to 2 mg/ml, otherwise we recommend using acetonitrile.

Storage: Store at -20°C. The product is hygroscopic and must be protected from light. Product is guaranteed one year from the date of shipment. Following reconstitution, aliquot and store at -20°C.

For research use only, not for diagnostic or therapeutic procedures.