Data Sheet (Cat.No.T36288)

TargetMol

Protease-Activated Receptor-1, PAR-1 Agonist TFA

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Protease-Activated Receptor-1 (PAR-1) Agonist TFA is a selective peptide that acts as an agonist for the proteinase-activated receptor-1 (PAR-1). Corresponding to the tethered ligand of PAR-1, this compound mimics the actions of thrombin through the PAR-1 receptor[1][2].
Targets(IC50)	Protease-activated Receptor
In vitro	A Protease-Activated Receptor-1 (PAR-1) agonist triggers the activation of protein kinase C (PKC) isoforms alpha and epsilon in HT-29 colon carcinoma cells that endogenously express PAR1. This stimulation at the cellular level, induced by both the PAR-1 agonist and thrombin, leads to enhanced HT-29 cell migration and matrix adhesion through a PKCepsilon-dependent pathway. This conclusion is supported by the observation that the effects mediated by PAR1 are inhibited by bisindolylmaleimide I (a PKC inhibitor) and EAVSLKPT (a PKCepsilon translocation inhibitory peptide), but not by PKC inhibitor G? 6976[2].

Solubility Information

Solubility	H2O: 6.67 mg/mL,Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Reference

Stefanie G?decke, et al. Thrombin-induced ATP release from human umbilical vein endothelial cells. Am J Physiol Cell Physiol. 2012 Mar 15;302(6):C915-23.

Heider I, et al. PAR1-type thrombin receptor stimulates migration and matrix adhesion of human colon carcinoma cells by a PKCepsilon-dependent mechanism. Oncol Res. 2004;14(10):475-482.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481