Product Data Sheet

Product Name: Protease-Activated Receptor-1, PAR-1 Agonist
Cat. No.: GC69768

Chemical Properties

Cas. No.	141136-85-8		
Formula	$C_{35}H_{58}N_{10}O_9$	M.Wt	762.9
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

Protease-Activated Receptor-1, PAR-1 Agonist is a selective proteinase-activated receptor1 **(PAR-1)** agonist peptide. Protease-Activated Receptor-1, PAR-1 Agonist corresponds to thrombin via this receptor[1][2].

Protease-Activated Receptor-1, PAR-1 Agonist induces activation of protein kinase C isoenzymes alpha and epsilon in human HT-29 colon carcinoma cells expressing PAR1 endogeneously. On the cellular level, Protease-Activated Receptor-1, PAR-1 Agonist and thrombin prompted HT-29 cell migration and matrix adhesion by a PKCepsilon-dependent mechanism as concluded because of the inhibition of PAR1-mediated effects by the PKC inhibitor bisindolylmaleimide I and the PKCepsilon translocation inhibitory peptide EAVSLKPT but not by the PKC inhibitor GÖ 6976[2].

[1]. Stefanie GÖdecke, et al. Thrombin-induced ATP release from human umbilical vein endothelial cells. Am J Psiol Cell Psiol. 2012 Mar 15;302(6):C915-23.
[2]. 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: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA