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DATASHEET

TFLLR-NH2

Product overview

Name	TFLLR-NH2
Cat No	HB2921
Biological description	TFLLR-NH2 is a selective PAR_1 (protease-activated receptor-1) activating peptide. It is commonly used to activate platelets and has also been shown to elicit scratching in mice. Active *in vivo*.
Alternative names	TFLLR, TF-NH2
Biological action	Activator
Purity	>95%
Description	Selective PAR_1 activating peptide

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in water (1 mg/ml)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	TFLLR (modifications: C-terminal amide)
Molecular Weight	647.82
Chemical structure	Thr-Phe-Leu-Leu-Arg-amide
Molecular Formula	$C_{76}H_{104}N_{18}O_{19}S_2$
Sequence (one letter)	TFLLR
Modifications	C-terminal amide
CAS Number	197794-83-5
PubChem identifier	10146183
SMILES	C[C@H]([C@@H](C(=O)N[C@@H](CC1=CC=CC=C1)C(=O)N[C@@H](CC(C)C)C(=O)N[C@@H](CC(C)C)C(=O)N[C@@H](CCCN=C(N)N)C(=O)N)N)O
InChiKey	ANAMCEKSRDPIPX-GFGQVAFXSA-N
MDL number	MFCD05663482

References

A role for proteinase-activated receptor-1 in inflammatory bowel diseases.

Vergnolle et al (2004) J Clin Ivest. 114(10)
PubMedID 15545995

Activation of platelet protease-activated receptor-1 induces epithelial-mesenchymal transition and chemotaxis of colon cancer cell line SW620.

Jia et al (26718652) Oncol Rep 35(2)

Activation of proteinase-activated receptors induces itch-associated response through histamine-dependent and -independent pathways in mice.

Tsujii et al (2008) J Pharmacol Sci. 108(3)

PubMedID 18987429