

Elafin/Trappin-2 Protein, Human (HEK293, His)

Cat. No.:	HY-P70316
Synonyms:	rHuElafin, His; Elafin; Elastase-Specific Inhibitor; ESI; Peptidase Inhibitor 3; PI-3; Protease inhibitor WAP3; Skin-Derived Antileukoproteinase; SKALP; WAP Four-Disulfide Core Domain Protein 14; PI3; WAP3; WFDC14
Species:	Human
Source:	HEK293
Accession:	P19957 (A23-Q117)
Gene ID:	5266
Molecular Weight:	13-15 kDa

PROPERTIES

AA Sequence	<p>A V T G V P V K G Q D T V K G R V P F N G Q D P V K G Q V S V K G Q D K V K A Q</p> <p>E P V K G P V S T K P G S C P I I L I R C A M L N P P N R C L K D T D C P G I K</p> <p>K C C E G S C G M A C F V P Q</p>
Biological Activity	The inhibitory activity of the product has not been validated; activation with Cathepsin C may be required before product use.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Elafin/Trappin-2, identified as a neutrophil and pancreatic elastase-specific inhibitor primarily found in the skin, serves as a protective factor against elastase-mediated tissue proteolysis. Its inhibitory properties extend beyond proteases, as it has demonstrated the ability to inhibit the alpha-4-beta-2/CHRNA2-CHRNA2 nicotinic acetylcholine receptor. Additionally, Elafin/Trappin-2 exerts a weak inhibitory effect on Kv11.1/KCNH2/ERG1 and the transient receptor potential cation channel subfamily V member 1 (TRPV1), as documented in studies.
-------------------	--

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA