Recombinant Human Peptidase Inhibitor 3, Skin-derived

Cat. No. PI3-2058H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Description	Belongs to the chelonianin family of protease inhibitors and is involved in the physiological control of neutrophil serine proteinases, where it targets NE and proteinase 3. Shows antiprotease, antibacterial and antiinflammatory activity and primes innate immunity.
Source/Host	*yeast*.
MW	5.9kDa.
Purity	≥90% (HPLC, SDS-PAGE, MS).
Appearance	White to faint yellow powder.
Reconstitution	Reconstitute in sterile distilled water. Further dilutions should be made in aqueous buffers, pH 4.0-8.0.
Biological Activity	Inhibits human leukocyte elastase (Ki=0.17nM) and human proteinase 3 (Ki=0.42nM).
Formulation	Lyophilized.
Specific Activity	Inhibition of human leukocyte elastase: ≥90%.

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Long Term Storage	-20°C.
Handling	After opening, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	PI3 peptidase inhibitor 3, skin-derived [Homo sapiens]
Synonyms	peptidase inhibitor 3, skin-derived; ESI; WAP3; SKALP; WFDC14; MGC13613; cementoin; PI3; elafin; PI-3; trappin-2; pre-elafin; protease inhibitor WAP3; elastase-specific inhibitor; skin-derived antileukoproteinase; WAP four-disulfide core domain 14; WAP four-disulfide core domain protein 14; protease inhibitor 3, skin-derived (SKALP); cementoin; Elastase-specific inhibitor; Skin-derived antileukoproteinase; ELAFIN; Protease inhibitor WAP3; Peptidase inhibitor 3
Gene ID	5266
mRNA Refseq	NM_002638
Protein Refseq	NP_002629
MIM	182257
UniProt ID	P19957
Chromosome Location	20q12-q13
Function	serine-type endopeptidase inhibitor activity; endopeptidase inhibitor activity; protein binding

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