

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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 45-1 Ramsey Road, Shirley, NY 11967, USA

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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