

## Recombinant Human Peptidase Inhibitor 3, Skin-derived

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

### SPECIFICATION

|                            |   |
|----------------------------|---|
| <b>Species</b>             | Human   |
| <b>Description</b>         | 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. |
| <b>Source/Host</b>         | <i>yeast.</i>   |
| <b>MW</b>                  | 5.9kDa.   |
| <b>Purity</b>              | ≥90% (HPLC, SDS-PAGE, MS).  |
| <b>Appearance</b>          | White to faint yellow powder.   |
| <b>Reconstitution</b>      | Reconstitute in sterile distilled water. Further dilutions should be made in aqueous buffers, pH 4.0-8.0.   |
| <b>Biological Activity</b> | Inhibits human leukocyte elastase (Ki=0.17nM) and human proteinase 3 (Ki=0.42nM).   |
| <b>Formulation</b>         | Lyophilized.  |
| <b>Specific Activity</b>   | Inhibition of human leukocyte elastase: ≥90%.   |
| <b>Long Term Storage</b>   | -20°C.  |

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**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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