

# Recombinant Human PI3, His-tagged

**Cat. No.** PI3-95H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human PI3, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.                          |
| <b>Species</b>          | Human                                                                                                                                                                      |
| <b>Source</b>           | Insect Cells                                                                                                                                                               |
| <b>Description</b>      | PI3, also known as elafin or peptidase inhibitor 3, is neutrophil and pancreatic elastase-specific inhibitor of skin. It may prevent elastase-mediated tissue proteolysis. |
| <b>Form</b>             | Liquid. In phosphate buffered saline (pH7.4), 10% glycerol.                                                                                                                |
| <b>Molecular Mass</b>   | 10.7kDa (101aa) confirmed by MALDI-TOF.8.5-13.5kDa (SDS-PAGE under reducing conditions.)                                                                                   |
| <b>AA Sequence</b>      | AVTGVPVKGQ DTVKGRVPFN GQDPVKGQVS VKGQDKVKAQ EPVKGPVSTK<br>PGSCPIILIR CAMLNPPNRC LKDTDCPGIK KCCEGSCGMA CFVPQH HHHHH H                                                       |
| <b>Endotoxin</b>        | < 1.0 eu per 1 microgram of protein (determined by lal                                                                                                                     |
| <b>Purity</b>           | >85% by SDS - PAGE.                                                                                                                                                        |
| <b>Storage</b>          | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.                         |

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**Concentration** 0.2mg/ml (determined by BCA)

## GENE INFORMATION

**Gene Name** PI3 peptidase inhibitor 3, skin-derived [ Homo sapiens ]

**Official Symbol** PI3

**Synonyms** PI3; peptidase inhibitor 3, skin-derived; protease inhibitor 3, skin derived (SKALP); elafin; cementoin; ELAFIN; ESI; SKALP; skin derived antileukoproteinase; trappin 2; WAP3; WFDC14; 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); MGC13613;

**Gene ID** 5266

**mRNA Refseq** NM\_002638

**Protein Refseq** NP\_002629

**MIM** 182257

**UniProt ID** P19957

**Chromosome Location** 20q13.12

**Function** endopeptidase inhibitor activity; serine-type endopeptidase inhibitor activity;

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