

# Recombinant Human PI3 protein, His-tagged

**Cat. No.** PI3-02H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PI3 protein, fused to His-tag, was expressed in Insect cell.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 23-117aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | This gene encodes an elastase-specific inhibitor that functions as an antimicrobial peptide against Gram-positive and Gram-negative bacteria, and fungal pathogens. The protein contains a WAP-type four-disulfide core (WFDC) domain, and is thus a member of the WFDC domain family. Most WFDC gene members are localized to chromosome 20q12-q13 in two clusters: centromeric and telomeric. This gene belongs to the centromeric cluster. Expression of this gene is upregulated by bacterial lipopolysaccharides and cytokines. |
| <b>Form</b>             | Liquid in. Phosphate-Buffered Saline (pH 7.4) 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 10.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | AVTGVPVKGQ DTVKGRVPFN GQDPVKGQVS VKGQDKVKAQ EPVKGPVSTK<br>PGSCPIILIR CAMLNPPNRC LKDTDCPGIK KCCEGSCGMA CFVPQH HHHHH H                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Endotoxin</b>        | < 1 EU per 1ug of protein (determined by LAL method).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|                      |                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | > 85%                                                                                                                                                                               |
| <b>Applications</b>  | SDS-PAGE                                                                                                                                                                            |
| <b>Storage</b>       | Can be stored at 2 centigrade to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles. |
| <b>Concentration</b> | 0.2mg/ml                                                                                                                                                                            |

## GENE INFORMATION

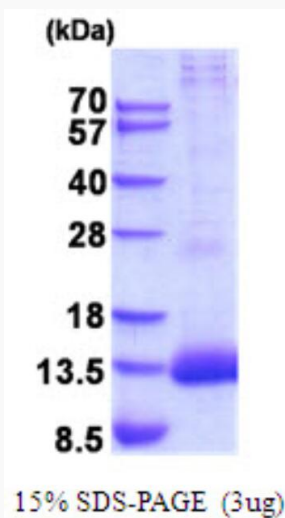
|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| <b>Gene Name</b>       | PI3 peptidase inhibitor 3 [ Homo sapiens (human) ]        |
| <b>Official Symbol</b> | PI3                                                       |
| <b>Synonyms</b>        | Elafin preproprotein; Cementoin; ESI; SKALP; WAP3; WFDC14 |
| <b>Gene ID</b>         | 5266                                                      |
| <b>mRNA Refseq</b>     | NM_002638                                                 |
| <b>Protein Refseq</b>  | NP_002629                                                 |
| <b>MIM</b>             | 182257                                                    |
| <b>UniProt ID</b>      | P19957                                                    |

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15% SDS-PAGE(3ug)



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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