



Recombinant Protein Technical Manual

Recombinant Human PI3/Elafin Protein (His Tag)

RPES2748

Product Data:

Product SKU: RPES2748

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P19957

Protein Information:

Molecular Mass: 11.0 kDa

AP Molecular Mass: 135 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 7.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Elafin; Elastase-Specific Inhibitor; ESI; Peptidase Inhibitor 3; PI-3; Protease inhibitor WAP3; Skin-Derived Antileukoproteinase; SKALP; WAP Four-Disulfide Core Domain Protein 14; PI3; WAP3; WFDC14

Immunogen Information:

Sequence: Ala23-Gln117

Background:

Elafin is a secreted protein. Elafin consists of two domains: the transglutaminase substrate domain (cementin moiety) and the elastase inhibitor domain. The transglutaminase substrate domain serves as an anchor to localize Elafin covalently to specific sites on extracellular matrix proteins. It is shown that Elafin can be used as a biomarker for graft versus host disease of the skin. Elafin is expressed in the skin during wound healing through activation of the epidermal growth factor receptor. Elafin may prevent elastase-mediated tissue proteolysis.