Recombinant SPB13 protein (His tag)

Catalog Number	548483
Synonyms	HaCaT UV-repressible serpin; Hurpin; Headpin; Peptidase inhibitor 13; PI-13; Proteinase inhibitor 13
Species	Human
Expression System	E. coli
Accession	Q9UIV8
Molecular Weight	Predictes a molecular mass of 45.93 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 49 kDa band.

Product Information

Sequence Region	1-391
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 1-391 aa (Q9UIV8) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Serpin B13 (Hurpin) Fragment (1-391) is a high-quality protein product designed for advanced research applications. This fragment encompasses the full-length protein and is computationally optimized for stability and solubility, making it ideal for structural studies, biochemical assays, and functional investigations in keratinocyte biology. Serpin B13, also known as Hurpin or Peptidase Inhibitor 13 (PI-13), is a human protein that may play a role in the proliferation or differentiation of keratinocytes, which are key cells in the skin's epidermis. It is localized in the cytoplasm, suggesting involvement in intracellular regulatory pathways. This protein is part of the serpin superfamily, known for their roles as serine protease inhibitors, and its study can provide insights into skin biology and related cellular processes.