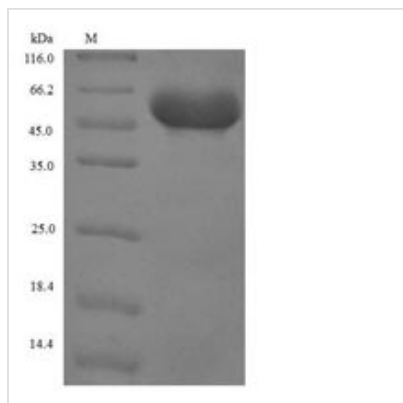




# Recombinant Human Serpin B4 (SERPINB4)

<b>Product Code</b>	CSB-EP021072HU
<b>Relevance</b>	May act as a protease inhibitor to modulate the host immune response against tumor cells.
<b>Abbreviation</b>	Recombinant Human SERPINB4 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P48594
<b>Alias</b>	Leupin Peptidase inhibitor 11 Short name: PI-11 Squamous cell carcinoma antigen 2 Short name: SCCA-2
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MNSLSEANTKFMFDLFQQFRKSKENNIFYSPISITSALGMVLLGAKDNTAQQIS KVLHFDQVTENTTEKAATYHVDRSGNVHHQFQKLLTEFNKSTDAYELKIANKL FGEKTYQFLQEYLDAIKKFYQTSVESTDFANAPESRKKINSWVESQTNEKIKN LFPDGTIGNDTTLVLVNAIFYKQGQWENKFKKENTKEEFWPNKNTYKSVQMM RQYNSFNFALLEDVQAKVLEIPYKGDLSMIVLLPNEIDGLQKLEEKLTAEKLME WTSLQNMRETCVDLHLPRFKMEESYDLKDTLRTMGMVNIFNGDADLSGMTW SHGLSVSKVLHKAFVEVTEEGVEAAAATAVVVVVELSSPSTNEEFCCNHPFLFFI RQNKTNLSILFYGRFSSP
<b>Research Area</b>	Cancer
<b>Source</b>	E.coli
<b>Target Names</b>	SERPINB4
<b>Expression Region</b>	1-390aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	60.9kDa
<b>Protein Length</b>	Full Length
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

The region for expressing recombinant Human SERPINB4 contains amino acids 1-390. The theoretical molecular weight of the SERPINB4 protein is 60.9 kDa. The SERPINB4 protein was expressed in e.coli. The SERPINB4 coding gene included the N-terminal 6xHis-SUMO tag, which simplifies the detection and purification processes of the recombinant SERPINB4 protein in following stages of expression and purification.

Serpin B4 (SERPINB4), a member of the serine protease inhibitor (serpin) superfamily, plays a role in regulating proteolytic processes. SERPINB4 is primarily expressed in squamous epithelial tissues and has been implicated in various physiological and pathological conditions. SERPINB4 is known to inhibit specific serine proteases, thereby modulating processes like inflammation, tissue remodeling, and immune response. Research on SERPINB4 includes investigations into its involvement in cancer, particularly in squamous cell carcinomas, where its dysregulation may contribute to tumor progression and metastasis. Understanding the functions and regulatory mechanisms of SERPINB4 can provide insights into its potential as a therapeutic target in diseases associated with aberrant protease activity.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.