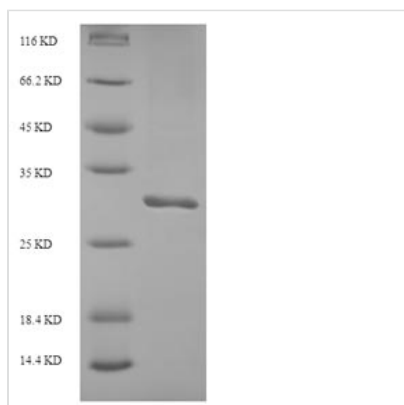




# Recombinant Human Inter-alpha-trypsin inhibitor heavy chain H5 (ITIH5), partial

<b>Product Code</b>	CSB-EP768213HU
<b>Relevance</b>	May act as a tumor suppressor.
<b>Abbreviation</b>	ITIH5
<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>	Q86UX2
<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>	VPRQVRLQLRLLKTKPLMTEFSVKSTIISRYAFTTVSCRMLNRASEDQDIEFQMQ IPAAAFITNFTMLIGDKVYQGEITEREKKSGDRVKEKRNKTTEENGEKGTIFRA SAVIPSKDKAAFFLSYEE
<b>Source</b>	E.coli
<b>Target Names</b>	ITIH5
<b>Protein Names</b>	Recommended name: Inter-alpha-trypsin inhibitor heavy chain H5 Short name= ITI heavy chain H5 Short name= ITI-HC5 Short name= Inter-alpha-inhibitor heavy chain 5
<b>Expression Region</b>	35-161aa
<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>	30.6kDa
<b>Protein Length</b>	partial protein

## Image



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



## Description

The region for expressing recombinant Human ITIH5 contains amino acids 35-161. This ITIH5 protein is expected to have a theoretical molecular weight of 30.6 kDa. The ITIH5 protein was expressed in e.coli. Fusion of the N-terminal 6xHis-SUMO tag into the ITIH5 encoding gene fragment was conducted, allowing for easier detection and purification of the ITIH5 protein in subsequent stages.

Human inter-alpha-trypsin inhibitor heavy chain H5 (ITIH5) functions as a key player in extracellular matrix stability and inflammation regulation. By interacting with hyaluronic acid, ITIH5 contributes to maintaining tissue integrity. In reproductive biology, ITIH5 plays a role in endometrial receptivity and embryo implantation, highlighting its significance in fertility research. Additionally, ITIH5 holds potential in cancer studies, where it may serve as a biomarker for certain malignancies. Its involvement in immune responses extends its relevance to immunology research. Unraveling the diverse functions of ITIH5 offers valuable insights into tissue homeostasis, reproductive processes, cancer therapeutics, and immunological mechanisms, advancing research across multiple disciplines.

## 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

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