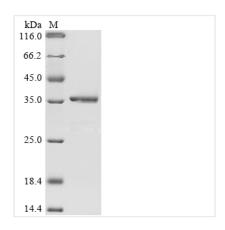




Recombinant Human Cystatin-A (CSTA)

Product Code	CSB-EP006099HU
Abbreviation	Recombinant Human CSTA protein
Storage	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.
Uniprot No.	P01040
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	IPGGLSEAKPATPEIQEIVDKVKPQLEEKTNETYGKLEAVQYKTQVVAGTNYYIK VRAGDNKYMHLKVFKSLPGQNEDLVLTGYQVDKNKDDELTGF
Research Area	Cancer
Source	E.coli
Target Names	CSTA
Expression Region	2-98aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	38.3 kDa
Protein Length	Full Length of Mature Protein
3	Tull Length of Matare Frotein

Image



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

CUSABIO TECHNOLOGY LLC



Tel: +1-301-363-4651

☑ Email: cusabio@cusabio.com
⑤ Website: www.cusabio.com





Description

The recombinant Human CSTA was expressed with the amino acid range of 2-98. The expected molecular weight for the CSTA protein is calculated to be 38.3 kDa. This CSTA protein is produced using e.coli expression system. The CSTA coding gene included the N-terminal GST tag, which simplifies the detection and purification processes of the recombinant CSTA protein in following stages of expression and purification.

Human cystatin-A (CSTA), also known as stefin A, is a member of the cystatin superfamily of cysteine proteinase inhibitors. CSTA plays a crucial role in regulating the activity of cysteine proteases by forming tight, reversible complexes with them. CSTA is primarily expressed in the epidermis, where it helps control the activity of proteases involved in skin homeostasis. Its inhibition of cathepsins protects against excessive protein degradation, contributing to the maintenance of skin integrity. Beyond its role in skin physiology, CSTA has been implicated in various pathological conditions, including cancer, where its dysregulation may influence tumor progression. Understanding CSTA's functions is vital for unraveling its diverse roles in health and disease.

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.