

Product datasheet

Recombinant Human Alpha 1 microglobulin protein ab157883

1 Image

Description

Product name	Recombinant Human Alpha 1 microglobulin protein
Expression system	Wheat germ
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>AGPVPTPPDNIQVQGNFNISRIYGKWYNLAIGSTCPWLKKI MDRMTVSTL VLGEGATEAEISMTSTRWRKGVCEETSGAYEKDSTDGKF LYHKSQWNITM ESYVVHTNYDEYAIFLTKKFSRHHGPTITAKLYGRAPQLRET LLQDFRVV AQGVGIPEDSIFTMADRGECPGEQEPEPILIPVRRVLP QEEEGSGGG QLVTEVTKKEDSCQLGYSAGPCMGMTSRFYNGTSMAC ETFQYGGCMGNG NNFVTEKECLQTCRTVAACNLPVIRGPCRAFIQLWAFDAV KGKCVLFPYG GCQGNKNKFYSEKECREYCGVPGDGDEELLRFSN</p>
Amino acids	19 to 352
Tags	GST tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab157883** in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot
	ELISA
Form	Liquid

Additional notes

Preparation and Storage

Stability and Storage

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function

Inter-alpha-trypsin inhibitor inhibits trypsin, plasmin, and lysosomal granulocytic elastase. Inhibits calcium oxalate crystallization.

Trypstatin is a trypsin inhibitor.

Tissue specificity

Expressed by the liver and secreted in plasma. Alpha-1-microglobulin occurs in many physiological fluids including plasma, urine, and cerebrospinal fluid. Inter-alpha-trypsin inhibitor is present in plasma and urine.

Sequence similarities

In the N-terminal section; belongs to the calycin superfamily. Lipocalin family.

Contains 2 BPTI/Kunitz inhibitor domains.

Post-translational modifications

The precursor is proteolytically processed into separately functioning proteins.

3-hydroxykynurenine, an oxidized tryptophan metabolite that is common in biological fluids, reacts with Cys-53, Lys-111, Lys-137, and Lys-149 to form heterogeneous polycyclic chromophores including hydroxanthommatin. The reaction by alpha-1-microglobulin is autocatalytic; the human protein forms chromophore even when expressed in insect and bacterial cells. The chromophore can react with accessible cysteines forming non-reducible thioether cross-links with other molecules of alpha-1-microglobulin or with other proteins such as Ig alpha-1 chain C region 'Cys-352'.

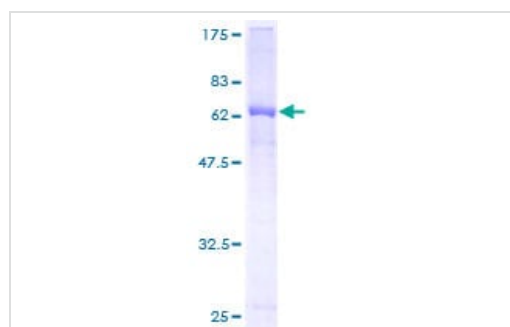
Heavy chains are interlinked with bikunin via a chondroitin 4-sulfate bridge to the their C-terminal aspartate.

Addition of glycosaminoglycan chondroitin sulfate, allows cross-linking between the different components.

Cellular localization

Secreted.

Images



ab157883 on a 12.5% SDS-PAGE stained with Coomassie Blue.

SDS-PAGE - Recombinant Human Alpha 1
microglobulin protein (ab157883)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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