

Product datasheet

Recombinant Human Proteasome 20S LMP2 protein
ab105592

1 Image

Description

Product name	Recombinant Human Proteasome 20S LMP2 protein
Purity	> 90 % SDS-PAGE. ab105592 was purified by using anion-exchange chromatography (DEAE sepharose resin) and gel-filtration chromatography (Sephacryl S-200) with 20mM Tris pH 7.5, 2mM EDTA.
Expression system	Escherichia coli
Accession	P28065
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHSSGLVPRGSHMTT IMAVEFDGGVVMGS DSRVSA GEAVV NRVFDKLSPLHERIYCALSGSAADAQAVADMAAYQLELH GIELEE PPL VLAAANVVRNISYKYREDLSAHLMVAGWDQREGGQVYGT LGGMLTRQ P FAIGGSGSTFIYGVDAAAYKPGMSPEECRRFTTDAIALAMS RDGSSGGV IMLVTITAAGVDHRVILGNELPKFYDE
Predicted molecular weight	24 kDa including tags
Amino acids	21 to 219
Tags	His tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab105592** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid

Preparation and Storage

Stability and Storage

Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

pH: 8.00

Constituents: 0.316% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.29% Sodium chloride

General Info

Function

The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The proteasome has an ATP-dependent proteolytic activity. This subunit is involved in antigen processing to generate class I binding peptides. Replacement of PSMB6 by PSMB9 increases the capacity of the immunoproteasome to cleave model peptides after hydrophobic and basic residues.

Sequence similarities

Belongs to the peptidase T1B family.

Developmental stage

Highly expressed in immature dendritic cells (at protein level).

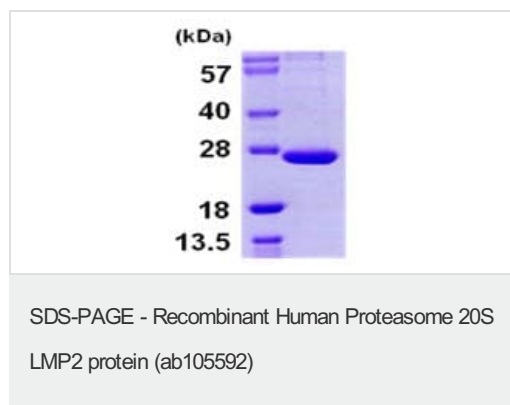
Post-translational modifications

Autocleaved. The resulting N-terminal Thr residue of the mature subunit is responsible for the nucleophile proteolytic activity.

Cellular localization

Cytoplasm. Nucleus.

Images



15% SDS-PAGE analysis of 3µg ab105592.

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