

Recombinant human PSMA4 protein

Catalog Number: ATGP1350

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-261aa

UniProt No.

P25789

NCBI Accession No.

NP_001096137

Alternative Names

Proteasome subunit alpha type-4 isoform 1, HC9, HsT17706, MGC111191, MGC12467, MGC24813, PSC9

PRODUCT SPECIFICATION

Molecular Weight

32.0 kDa (285aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT, 0.1mM PMSF

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PSMA4, also known as proteasome subunit alpha type 4, is a member of the peptidase T1A family, that is a 20S core alpha subunit. The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. It is distributed throughout eukaryotic cells at a high concentration and cleaves peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. Recombinant human PSMA4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by

Recombinant human PSMA4 protein

Catalog Number: ATGP1350

using conventional chromatography.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMSRRYD SRTTIFSPG RLYQVEYAME AIGHAGTCLG ILANDGVLLA AERRNIHKLL
DEVFFSEKIY KLNEDMACSV AGITSDANVL TNELRLIAQR YLLQYQEPPIP CEQLVTALCD IKQAYTQFGG KRPFVSVLLY
IGWVKHYGFQ LYQSDPSGNY GGWKATCIGN NSAAAVSMLK QDYKEGEMTL KSALALAIKV LNKTMVSKL SAEKVEIATL
TRENKTVIR VLKQKEVEQL IKKHHEEEAK AEREKKEKEQ KEKDK

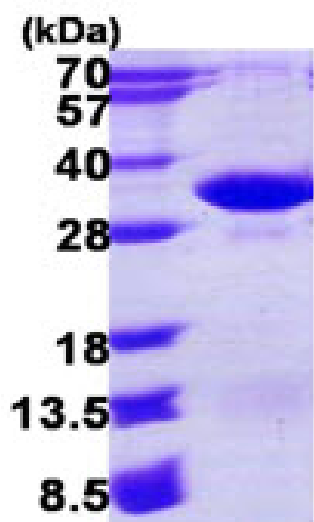
General References

Kristensen P. et al. (1995) Biochem. Biophys. Res. Commun. 205: 1785-1789.

Morimoto Y. et al. (1995) J. Biochem. 117: 471-474

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)