Recombinant human PSMA2 protein

Catalog Number: ATGP1231

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-234aa

UniProt No.
P25787

NCBI Accession No.
NP_002778.1

Alternative Names
Proteasome subunit alpha type-2, HC3, Mu, PMSA2, PSC2

PRODUCT SPECIFICATION

Molecular Weight
28.0 kDa (254aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol, 0.1M NaCl,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
PSMA2, also known as proteasome subunit alpha type-2, 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. PSMA2, belonged to the peptidase T1A family, is a 20S core alpha subunit of proteasome. This protein serves as docking domains for the regulatory particles and exterior gates blocking unregulated access to the interior cavity. Recombinant human PSMA2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

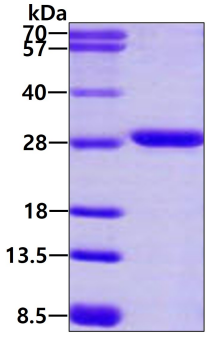
<MGSSHHHHHH SSGLVPRGSH> MAERGYSFSL TTFSPSGKLV QIEYALAAVA GGAPSVGIKA ANGVVLATEK KQKSILYDER SVHKVEPITK HIGLVYSGMG PDYRVLVHRA RKLAQQYYLV YQEPIPTAQL VQRVASVMQE YTQSGGVRPF GVSLLICGWN EGRPYLFQSD PSGAYFAWKA TAMGKNYVNG KTFLEKRYNE DLELEDAIHT AILTLKESFE GQMTEDNIEV GICNEAGFRR LTPTEVKDYL AAIA

General References

Cho S. et al. (2001) FEBS Lett. 498(1):62-6.
Dong J. et al. (2004) J Biol Chem. 279(20):21334-42.

DATA

SDS-PAGE



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