Recombinant human PSMA7 protein

Catalog Number: PSM0901

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-248aa

UniProt No.
O14818

NCBI Accession No.
NP_002783

Alternative Names
Proteasome alpha 7 subunit, C6, HSPC, MGC3755, RC6-1, XAPC7, Proteasome alpha 7 subunit, PSMA7, Proteasome alpha 7 subunit Proteasome (prosome macropain) subunit alpha type 7, Proteasome alpha 7 subunit, Proteasome subunit alpha 4, Proteasome subunit alpha type 7, PSMA 7, RC6 1, Proteasome subunit RC6 1, Proteasome subunit XAPC7.

PRODUCT SPECIFICATION

Molecular Weight
30 kDa (268aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl

Purity
> 90% 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
Proteasome alpha 7, PSMA7, 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. PSMA7, belonged to the peptidase T1A family, is a 20S core alpha subunit of proteasome. This protein was found to

interact specifically with two subdomains of HIF-1alpha and inhibited the transactivation function of HIF-1alpha under both normoxic and hypoxia-mimicking conditions. Recombinant PSMA7 protein was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

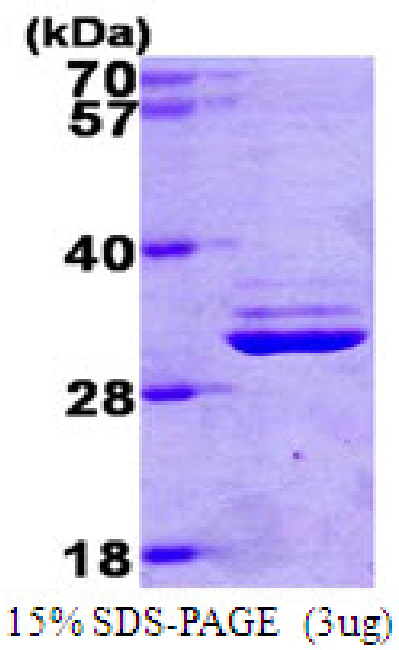
MGSSHHHHHH SSGLVPRGSH MSYDRAITVF SPDGHLFQVE YAQEAVKKGS TAVGVRGRDI VVLGVEKKSV AKLQDERTVR KICALDDNVC MAFAGLTADA RIVINRARVE CQSHRLTVED PVTVEYITRY IASLKQRYTQ SNGRRPFGIS ALIVGFDFDG TPRLYQTDPS GTYHAWKANA IGRGAKSVRE FLEKNYTDEA IETDDLTIKL VIKALLEVVQ SGGKNIELAV MRRDQSLKIL NPEEIEKYVA EIEKEKEENE KKKQKKAS

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.