

PSMA3, 1-255 aa, Human, His tag E.coli

Cat.NO.: TP03561

3th Edition

Synonyms: Proteasome (prosome, macropain) subunit, alpha type 3, HC8, MGC12306, MGC32631, PSC3.

Description: 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. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway.

Form: Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 1mM DTT, 0.15M NaCl.

Molecular Weight: 30.6 kDa (275aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMSSIGTGYDLSASTFSPDGRVVFQVEYAMKAVENTSSTAIGIRCKDGVVFGVEKLVL
SKLYEEGSNKRLFNVDRHVGMAVAGLLADARSLADIAREEASNFRSNFGYNIPLKHLADRVAMYVHAYTLYSAVRP
FGCSFMLGYSVNDGAQLYMIDPSGVSYGYWGCAIGKARQAAKTEIEKLQMKEMTCRDIVKEVAKIIVHDEVKDK
AFELELSWVGELTNGRHEIVPKDIREEAKEYAKESLKEEDESDDDNM

Purity: > 95% by HPLC

Concentration: 1 mg/ml (determined by Bradford)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.