

PSMB7 Human

Description: PSMB7 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 255 amino acids (44-277) and having a molecular mass of 27.6kDa (Molecular size on SDS-PAGE will appear higher). PSMB7 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: ENPS-584

For research use only.

Synonyms: Proteasome subunit beta type-7, Macropain chain Z, Multicatalytic endopeptidase complex chain Z, Proteasome subunit Z, PSMB7, Z.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MTTIAGVVYK DGIVLGADTR
ATEGMVVADK NCSKIHFI SP NIYCCGAGTA ADTDMTTQLI SSNLELHSLT TGR LPRVVT
NRMLKQMLFR YQGYIGAALV LGGVDVTGPH LYSIYPHGST DKLPYVTMGS GSLAAMAVFE
DKFRPDMEEE EAKNLVSEAI AAGIFNDLGS GSNIDLCVIS KNKLDFLRPY TVPNKKGTRL
GRYRCEKGT AV

Purity: Greater than 80.0% as determined by SDS-PAGE.

Formulation:

The PSMB7 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 1mM DTT.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

Proteasome subunit beta type-7 (PSMB7) belongs to the proteasome B-type family. PSMB7 is a multicatalytic proteinase complex with an extremely ordered ring-shaped 20S core structure. This core structure is comprised of 4 rings of 28 non-identical subunits; 2 rings are comprised of 7 alpha subunits and 2 rings are comprised of 7 beta subunits. Proteasomes are scattered all over eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent manner in a non-lysosomal pathway. The processing of class I MHC peptides is a vital function of the immunoproteasome (which is a modified proteasome).

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