

PSMA5 Human

Description: PSMA5 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 277 amino acids (1-241) and having a molecular mass of 30.5kDa. PSMA5 is fused to a 36 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: ENPS-220

For research use only.

Synonyms: Proteasome subunit alpha type-5, Macropain zeta chain, Multicatalytic endopeptidase complex zeta chain, Proteasome zeta chain, PSMA5, PSC5, ZETA.

Source: E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMFLT
RSEYDRGVNT FSPEGRLFQV EYAIEAIKLG STAIGIQTSE GVCLAVEKRI TSPLMEPSSI
EKIVEIDAHG GCAMSGLIAD AKTLIDKARV ETQNHWFYTN ETMTVESVTQ AVSNLALQFG
EEDADPGAMS RPFGVALLFG GVDEKGPQLF HMDPSGTFVQ CDARAIGSAS EGAQSSLQEV
YHKSMTLKEA IK

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:

The PSMA5 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 10% glycerol and 100mM NaCl.

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 alpha type-5 (PSMA5) is a member of the peptidase T1A family. The proteasome is a multicatalytic proteinase complex which is distinguished by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. Proteasomes are spread throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. PSMA5 interacts with PLK1. The PSMA5 peptidase has a very wide-ranging specificity for cleavage of peptide bonds.

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