

## PSMA2 Human

**Description:** PSMA2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 254 amino acids (1-234 a.a.) and having a molecular mass of 28kDa. PSMA2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: ENPS-182

For research use only.

**Synonyms:** Proteasome subunit alpha type-2, Macropain subunit C3, Multicatalytic endopeptidase complex subunit C3, Proteasome component C3, PSMA2, HC3, PSC3, MU, PSC2.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MAERGYSFSL TTFSPSGKLV  
QIEYALAAVA GGAPSVGIKA ANGVVLATEK KQKSILYDER SVHKVEPITK HIGLVYSGMG  
PDYRVLVHRA RKLAQQYYLV YQEPIPTAQL VQRVASVMQE YTSQGGVRPF GVSLLICGWN  
EGRPYLFQSD PSGAYFAWKA TAMGKNYVNG KTFLEKRYNE DLELEDAIHT AILTLKESFE  
GQMTEDNIEV GI

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

PSMA2 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 30% glycerol, 0.1M NaCl, 1mM DTT and 0.1mM PMSF.

### 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-2 (PSMA2) 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 is a 20S core alpha subunit of proteasome belonging to the peptidase T1A family. PSMA2 functions as a docking domain for the regulatory particles and exterior gates blocking unregulated access to the inner cavity.

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