

PSMG2 Human

Description: PSMG2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 287 amino acids (1-264 a.a.) and having a molecular mass of 31.8kDa. PSMG2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: PRPS-937

For research use only.

Synonyms: Proteasome assembly chaperone 2, PAC-2, Hepatocellular carcinoma-susceptibility protein 3, Tumor necrosis factor superfamily member 5-induced protein 1, PSMG2, HCCA3, PAC2, TNFSF5IP1, CLAST3, MDS003, HsT1707, MGC15092.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHH SSGLVPRGSH MGSMFVPCGE SAPDLAGFTL
LMPAVSVGNV GQLAMDLIIS TLNMSKIGYF YTDCLVPMVG NNPYATTEGN STELSINAEV
YSLPSRKLVA LQLRSIFIKY KSKPFCEKLL SWVKSSGCAR VIVLSSSHSY QRNDLQLRST
PFRYLLTPSM QKSVQNKIKS LNWEEMEKSR CIPEIDDSEF CIRIPGGGIT KTLYDESCSK
EIQMAVLLKF VS

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

PSMG2 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 40% glycerol and 0.1M 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 assembly chaperone 2 (PSMG2) stimulates assembly of the 20S proteasome as part of a heterodimer with PSMG1. The PSMG1-PSMG2 heterodimer binds to the PSMA5 and PSMA7 proteasome subunits and promotes compilation of the proteasome alpha subunits into the heteroheptameric alpha ring and prevents alpha ring dimerization. PSMG2 is widely expressed with highest levels in the lung, brain and colon. It is moderately expressed in the muscle, stomach, spleen and heart, and weakly expressed in the small intestine, pancreas and liver. It is also highly expressed in hepatocellular carcinomas with low levels in surrounding liver tissue.

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