32-4526: Recombinant Human Proteasome Beta Type 10

Alternative Name : Proteasome subunit beta type-10,Low molecular mass protein 10,Macropain subunit MECl-1,Multicatalytic endopeptidase complex subunit MECl-1,Proteasome MECl-1,Proteasome subunit beta-2i,PSMB10,LMP10,MECL1,beta2i,MGC1665,FLJ00366.

Description

Source : Escherichia Coli. PSMB10 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 255 amino acids (40-273 a.a.) and having a molecular mass of 26.9kDa.PSMB10 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. PSMB10 is a member of the proteasome B-type family (T1B family) which is a 20S core beta subunit. The proteasome is a multicatalytic proteinase complex with an extremely ordered ring-shaped 20S core structure. This core structure is comprised of four rings of 28 non-identical subunits; two rings are composed of seven alpha subunits and two rings are composed of seven beta subunits. Proteasomes are circulated in eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. A crucial function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. PSMB10 gene expression is induced by interferon-gamma, and it replaces catalytic subunit 2 (proteasome beta 7 subunit) in the immunoproteasome.

Product Info

Amount :	5 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	PSMB10 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 40% glycerol and 0.1M NaCl.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MTTIAGLVFQ DGVILGADTR ATNDSVVADK SCEKIHFIAP KIYCCGAGVA ADAEMTTRMV ASKMELHALS TGREPRVATV TRILRQTLFR YQGHVGASLI VGGVDLTGPQ LYGVHPHGSY SRLPFTALGS GQDAALAVLE DRFQPNMTLE AAQGLLVEAVTAGILGDLGS GGNVDACVIT KTGAKLLRTL SSPTEPVKRS GRYHFVPGTT AVLTQTVKPL TLELVEETVQ AMEVE.