

Human&Mouse Chimeric LMP2 (HLA-A*02:01) Protein

Cat. No. MHC-HM413

Description

Source	Recombinant Human&Mouse Chimeric LMP2 (HLA-A*02:01) Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Gly25-Thr206(Human HLA-A*02:01 α 1& α 2)&Asp207-Ala362(Mouse HLA-A*02:01 α 3), Ile21-Met119(B2M) and CLGGLTMV peptide.
Accession	A0A140T913(Human HLA-A*02:01 α 1& α 2)&P01897(Mouse HLA-A*02:01 α 3)&P61769(B2M)&CLGGLTMV
Molecular Weight	The protein has a predicted MW of 50.3 kDa. Due to glycosylation, the protein migrates to 52-65 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μ g by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Supplied as 0.22 μ m filtered solution in PBS (pH 7.4). Please dilute to the desired concentration according to the concentration of the solution shown on the product label.
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please do not repeated freeze-thaw cycles.

Background

The immunoproteasome, having been linked to neurodegenerative diseases and hematological cancers, has been shown to play an important role in MHC class I antigen presentation. The development of molecular probes that selectively inhibit the major catalytic subunit, LMP2, of the immunoproteasome, LMP2-rich cancer cells compared to LMP2-deficient cancer cells are more sensitive to growth inhibition by the LMP2-specific inhibitor, implicating an important role of LMP2 in regulating cell growth of malignant tumors that highly express LMP2.

Assay Data

Tris-Bis PAGE



Human&Mouse Chimeric LMP2 (HLA-A*02:01) on Tris-Bis PAGE under reduced and non-reduced condition. The purity is greater than 95%.

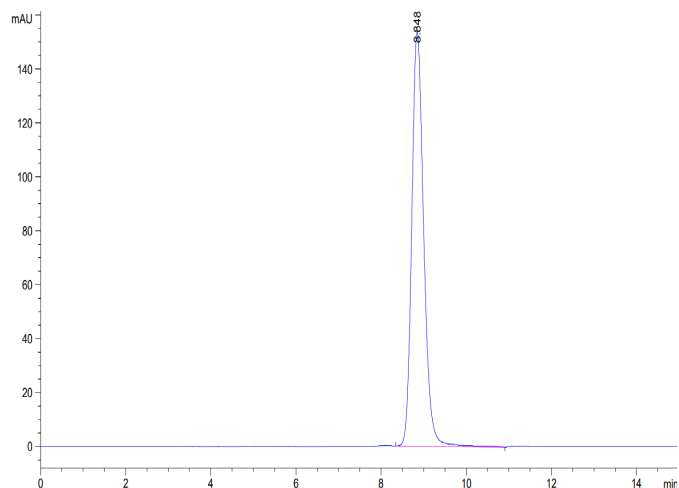
SEC-HPLC

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Assay Data



The purity of Human&Mouse Chimeric LMP2 (HLA-A*02:01) was greater than 95% as determined by SEC-HPLC.