

Mouse H2-Db&B2M&LCMV gp33-41 (KAVYNFATC) Monomer Protein

Cat. No. MHC-ME402

Description

Source	Recombinant Mouse H2-Db&B2M&LCMV gp33-41 (KAVYNFATC) Monomer Protein is expressed from E.coli with His tag and Avi tag at the C-terminus. It contains Gly25-Val309 (H2-Db), Ile21-Met119 (B2M) and KAVYNFATC peptide.
Accession	P01899(H2-Db)&P01887(B2M)&KAVYNFATC
Molecular Weight	The protein has a predicted MW of 35.93 kDa (H2-Db) and 11.64 kDa (B2M) same as Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

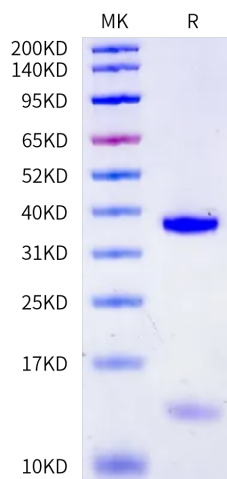
Formulation	Supplied as 0.22 µm filtered solution in 20mM Tris, 200mM NaCl (pH 8.0).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

LCMV gp33-41 (KAVYNFATC) is an H-2Db-restricted immunodominant epitope derived from the viral envelope glycoprotein (GP) of the Lymphocytic Choriomeningitis Virus. It serves as a critical target for CD8+ T cell responses and is widely utilized in immunological models, notably using P14 TCR transgenic mice, to study T cell activation and viral clearance.

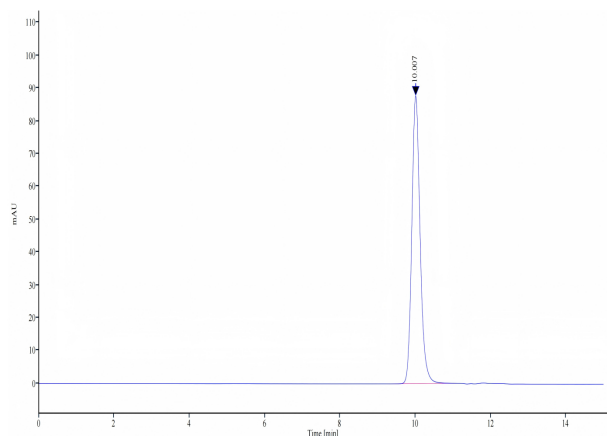
Assay Data

Bis-Tris PAGE



Mouse H2-Db&B2M&LCMV gp33-41 (KAVYNFATC) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Mouse H2-Db&B2M&LCMV gp33-41 (KAVYNFATC) Monomer is greater than 95% as determined by SEC-HPLC.