PE-Labeled Human HLA-A*02:01&B2M&P53 WT (HMTEVVRRC) Tetramer Protein

Cat. No. MHC-HM416TP

Description

Source	Recombinant PE-Labeled Human HLA-A*02:01&B2M&P53 WT (HMTEVVRRC) Tetramer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. PE-Labeled Human HLA-A*02:01&B2M&P53 WT (HMTEVVRRC) Tetramer is assembled by biotinylated monomer and PE-labeled streptavidin.
	It contains Gly25-Thr305(HLA-A*02:01),Ile21-Met119(B2M) and HMTEVVRRC peptide.
Accession	A0A140T913(HLA-A*02:01)&P61769(B2M)&HMTEVVRRC
Wavelength	Excitation Wavelength: 488 nm / 561 nm
	Emission Wavelength: 575 nm
Endotoxin	Less than 1EU per μg by the LAL method.

Formulation and Storage

Formulation	Supplied as 0.22μm filtered solution in PBS, 0.2% BSA (pH 7.4).
Storage	Valid for 6 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 and protect from light.

Background

p53 is a tumor suppressor protein. Under stressful conditions, p53 tightly regulates cell growth by promoting apoptosis and DNA repair. When p53 becomes mutated, it loses its function, resulting in abnormal cell proliferation and tumor progression. Depending on the p53 mutation, it has been shown to form aggregates leading to negative gain of function of the protein. p53 mutant associated aggregation has been observed in several cancer tissues and has been shown to promote tumor growth.