

HLA-A*0201 HPV16 E7 complex Protein, Human (HEK293, His)

Cat. No.:	HY-P70393
Synonyms:	rHuHLA-A*0201 HPV16 E7 complex Protein, His; NA
Species:	Human
Source:	HEK293
Accession:	YMLDLQPET & P61769 (Ile21-Met119) & P01892 (G25-I3)
Gene ID:	567&3105
Molecular Weight:	55-60 kDa

PROPERTIES

AA Sequence	<p>YMLDLQPET & IQRTPKIQVY SRHPAENGKS NFLNCYVSGF</p> <p>HPSDIEVDLL KNGERIEKVE HSDLSFSKDW SFYLLYYTEF</p> <p>TPTEKDEYAC RVNHVTLSQP KIVKWDRDM & GSHSMRYFFT</p> <p>SVSRPGRGEP RFIAVG YVDD TQFVRFDSDA ASQRMEPRAP</p> <p>WIEQEGPEYW DQETRNVKAQ SQTDRVDLGT LRGYYNQSEA</p> <p>GSHTIQIMYG CDVGS DGRFL RGYRQDAYDG KDYIALNEDL</p> <p>RSWTAADMAA QITKRKWEAA HEAEQLRAYL DGTCEWLRRL</p> <p>YLENGKETLQ RTDPPKTHMT HHPISDHEAT LRCWALGFYP</p> <p>AEITLTWQRD GEDQTQDTEL VETRPAGDGT FQKWVAVVVP</p> <p>SGEEQRYTCH VQHEGLPKPL TLRWELSSQP T I P I</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 500 mM NaCl, 0.06% Tween 80, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	B2M, or Beta-2-microglobulin, functions as a critical component of the class I major histocompatibility complex (MHC), playing a central role in presenting peptide antigens to the immune system. Notably, exogenously applied M. tuberculosis EsxA or EsxA-EsxB binds B2M and reduces its export to the cell surface, potentially leading to defects in class I antigen
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presentation. B2M exists as a heterodimer, composed of an alpha chain and a beta chain, with the latter serving as the beta-chain of major histocompatibility complex class I molecules. Polymers of B2M have been observed in tissues of patients on long-term hemodialysis. B2M, in its isolated form, interacts with *M. tuberculosis* EsxA and an EsxA-EsxB complex, forming a tripartite complex detectable in the host endoplasmic reticulum. The stability of the B2M-EsxA complex extends across a broad pH range and in the presence of high salt concentrations. Additionally, B2M forms heterotrimers with HLA-E, HLA-G, and HLA-F, along with a self- or foreign peptide, contributing to the diverse functions of the major histocompatibility complex. Furthermore, B2M engages in a heterotrimeric complex with MR1, playing a role in antigen presentation associated with metabolite antigens.

Caution: Product has not been fully validated for medical applications. For research use only.

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