

Product datasheet for PH305939

HLAE (HLA-E) (NM_005516) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	HLA MS Standard C13 and N15-labeled recombinant protein (NP_005507)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205939
Predicted MW:	40.1 kDa
Protein Sequence:	>RC205939 protein sequence Red=Cloning site Green=Tags(s)
	MVDGTL L L L L L L S E A L A L T Q T W A G S H S L K Y F H T S V S R P G R G E P R F I S V G Y V D D T Q F V R F D N D A A S P R M V P R A P W M E Q E G S E Y W D R E T R S A R D T A Q I F R V N L R T L R G Y Y N Q S E A G S H T L Q W M H G C E L G P D G R F L R G Y E Q F A Y D G K D Y L T L N E D L R S W T A V D T A A Q I S E Q K S N D A S E A E H Q R A Y L E D T C V E W L H K Y L E K G K E T L L H L E P P K T H V T H H P I S D H E A T L R C W A L G F Y P A E I T L T W Q Q D G E G H T Q D T E L V E T R P A G D G T F Q K W A A V V V P S G E E Q R Y T C H V Q H E G L P E P V T L R W K P A S Q P T I P I V G I I A G L V L L G S V V S G A V V A A V I W R K K S S G K G G S Y S K A E W S D S A Q G S E S H S L
	TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_005507</u>
RefSeq Size:	2679
RefSeq ORF:	1074
Synonyms:	HLA-6.2; QA1
Locus ID:	3133



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UniProt ID: [P13747](#), [A0A4E9D3W4](#), [A8K8M6](#), [O19682](#)

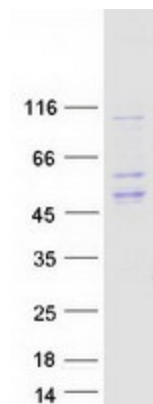
Cytogenetics: 6p22.1

Summary: HLA-E belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. HLA-E binds a restricted subset of peptides derived from the leader peptides of other class I molecules. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domains, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region, and exons 6 and 7 encode the cytoplasmic tail. [provided by RefSeq, Jul 2008]

Protein Families: Transmembrane

Protein Pathways: Allograft rejection, Antigen processing and presentation, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Endocytosis, Graft-versus-host disease, Natural killer cell mediated cytotoxicity, Type I diabetes mellitus, Viral myocarditis

Product images:



Coomassie blue staining of purified HLA-E protein (Cat# [TP305939]). The protein was produced from HEK293T cells transfected with HLA-E cDNA clone (Cat# [RC205939]) using MegaTran 2.0 (Cat# [TT210002]).