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# Product Information

## MemDX™ Membrane Protein Human HLA-E (Major histocompatibility complex, class I, E)

### Full Length

Cat. No.: **MPC2840K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human HLA-E membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

## Product Specifications

**Host Species**
Human

**Target Protein**
HLA-E

**Protein Length**
Full length

**Protein Class**
Immunity

**TMD**
1

**Sequence**
MVDGTLLLLLSEALALTQTWAGSHSLKYFHTSVSRPGRGEPRFISVGYVD
DTQFVRFDNDAASPRMVPRAPWMEQEGSEYWDRETRSARDTAQIFRVNLR
TLRGYYNQSEAGSHTLQWMHGCELGPDGRFLRGYEQFAYDGKDYLTLNED
LRSWTAVDTAAQISEQKSNDASEAEHQRAYLEDTCVEWLHKYLEKGKETL
LHLEPPKTHVTHHPISDHEATLRCWALGFYPAEITLTWQQDGEGHTQDTE
LVETRPAGDGTFQKWAAVVVPSGEEQRYTCHVQHEGLPEPVTLRWKPASQ
PTIPIVGIIAGLVLLGSVVSGAVVAAVIWRKKSSGGKGGSYSKAEWSDSA
QGSESHSL

## Product Description

**Expression Systems**
HEK293

**Tag**
Based on specific requirements

**Protein Format**

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

**Form**

Liquid

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

## Target

**Target Protein**

HLA-E

**Full Name**

Major histocompatibility complex, class I, E

**Introduction**

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.

**Alternative Names**

HLA-E; QA1; HLA-6.2; HLA class I histocompatibility antigen, alpha chain E; MHC class I antigen E; MHC class Ib antigen; Major histocompatibility complex, class I, E

**Gene ID**

3133

**UniProt ID**

P13747

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