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Recombinant human HLA-C protein

Catalog Number: ATGP2222

PRODUCT INFORMATION

Expression system
E.coli

Domain
25-308aa

UniProt No.
P10321

NCBI Accession No.
NP_002108

Alternative Names
HLA class I histocompatibility antigen Cw-1 alpha chain, HLA class I histocompatibility antigen, Cw-1 alpha chain, D6S204, HLA-JY3, HLC-C, PSORS1

PRODUCT SPECIFICATION

Molecular Weight
34.9 kDa (307aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
HLA-C 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. Class I molecules play a central role in the immune system by presenting peptides derived from endoplasmic reticulum lumen. They are expressed in nearly all cells. Recombinant human HLA-C protien, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

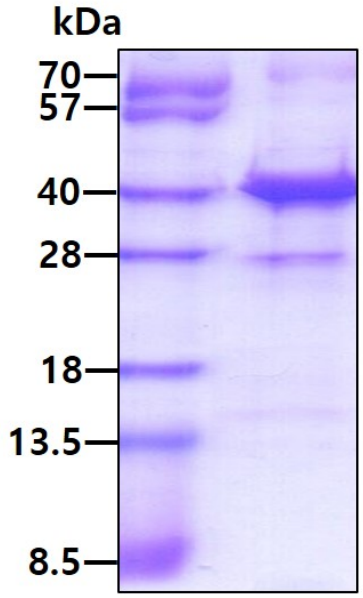
<MGSSHHHHHH SSGLVPRGSH MGS>CSHSMRY FDTAVSRPGR GEPRFISVGY VDDTQFVRFD SDAASPRGEP RAPWVEQEGP EYWDRETQKY KRQAQADRVS LRNLRGYYNQ SEDGSHTLQR MSGCDLGPDG RLLRGYDQSA YDGKDYIALN EDLRSWTAAD TAAQITQRKL EAARAAEQLR AYLEGTCVEW LRRYLENGKE TLQRAEPPKT HVTHHPLSDH EATLRCWALG FYPAEITLTW QRDGEDQTQD TELVETRPAG DGTFQKWAAV VVPSGQEQRY TCHMQHEGLQ EPLTLSWEPS SQPTIPI

General References

Xu Y., et al. (2009) Tissue Antigens. 74:453-455
Zou H.Y., et al. (2009) Tissue Antigens. 74:455-456

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.