

OriGene Technologies, Inc.

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Product datasheet for AR51046PU-N

HLA class I Cw7 alpha / HLA-C (25-308, His-tag) Human Protein

Product data:

Product Type: Recombinant Proteins

Description: HLA class I Cw7 alpha / HLA-C (25-308, His-tag) human protein, 0.5 mg

Species: Human Expression Host: E. coli

Tag:His-tagPredicted MW:34.9 kDaConcentration:lot specific

Purity: >90% by SDS - PAGE

Buffer: Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Preparation: Liquid purified protein

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid

repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

RefSeq: NP 001229971

Locus ID: 3107 **Cytogenetics:** 6p21.33

Synonyms: D6S204; HLA-JY3; HLAC; HLC-C; MHC; PSORS1





Summary:

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. 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 domain, 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. Polymorphisms within exon 2 and exon 3 are responsible for the peptide binding specificity of each class one molecule. Typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. Over one hundred HLA-C alleles have been described [provided by RefSeq, Jul 2008]

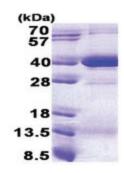
Protein Families:

Secreted Protein, 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:



15% SDS-PAGE (3ug)