

HLA class I histocompatibility antigen, alpha chain G (HLA-G) Recombinant Protein | HLA-G recombinant protein

Recombinant Human HLA class I histocompatibility antigen, alpha chain G (HLA-G)

CATALOG # AAA15926	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
------------------------------	---

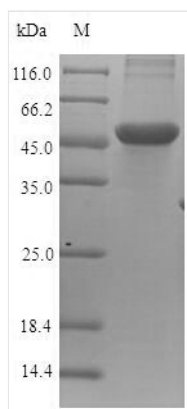
PRODUCT SYNONYMS

HLA class I histocompatibility antigen; alpha chain G (HLA-G); Recombinant Human HLA class I histocompatibility antigen; HLA G antigen; MHC class I antigen G; HLA-G recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	25-338aa; Full Length of Mature Protein
Sequence	GSHSMRYFSA AVSRPGRGEP RFIAMGYVDD TQFVRFDSDS ACPRMEPRAP WVEQEGPEYW EEETRNTKAH AQTDRLNLQT LRGYYNQSEA SSHTLQWMIG CDLGSDGRLL RGYEQYAYDG KDYLALNEDL RSWTAADTAA QISKRKCEAA NVAEQRRAYL EGTCVEWLHR YLENGKEMLQ RADPPKTHVT HHPVFDYEAT LRCWALGFYP AEIILTWQRD GEDQTQDVEL VETRPAGDGT FQKWAAVVVP SGEEQRYTCH VQHEGLPEPL MLRWKQSSLP TIPIMGIVAG LVLAAVVTG AAVAALVRK KSSD
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for HLA-G recombinant protein	Involved in the presentation of foreign antigens to the immune system. Plays a role in maternal tolerance of the fetus by mediating protection from the deleterious effects of natural killer cells, cytotoxic T-lymphocytes, macrophages and mononuclear cells.
Product Categories/Family for HLA-G recombinant protein	Immunology

References	The mRNA of a human class I gene HLA G/HLA 6.0 exhibits a restricted pattern of expression.Shukla H., Swaroop A., Srivastava R., Weissman S.M.Nucleic Acids Res. 18:2189-2189(1990) A human major histocompatibility complex class I gene that encodes a protein with a shortened cytoplasmic segment.Geraghty D.E., Koller B.H., Orr H.T.Proc. Natl. Acad. Sci. U.S.A. 84:9145-9149(1987) Ishitani A., Geraghty D.E. A 356-Kb sequence of the subtelomeric part of the MHC class I region.Hampe A., Coriton O., Andrieux N., Carn G., Lepourcelet M., Mottier S., Dreano S., Gatijs M.T., Hitte C., Soriano N., Galibert F.DNA Seq. 10:263-299(1999) Homo sapiens 2,229,817bp genomic DNA of 6p21.3 HLA class I region.Shiina S., Tamiya G., Oka A., Inoko H.Disulfide bond-mediated dimerization of HLA-G on the cell surface.Boyson J.E., Erskine R., Whitman M.C., Chiu M., Lau J.M., Koopman L.A., Valter M.M., Angelisova P., Horejsi V., Strominger J.L.Proc. Natl. Acad. Sci. U.S.A. 99:16180-16185(2002) Crystal structure of HLA-G a nonclassical MHC class I molecule expressed at the fetal-maternal interface.Clements C.S., Kjer-Nielsen L., Kostenko L., Hoare H.L., Dunstone M.A., Moses E., Freed K., Brooks A.G., Rossjohn J., McCluskey J.Proc. Natl. Acad. Sci. U.S.A. 102:3360-3365(2005) Efficient leukocyte Ig-like receptor signaling and crystal structure of disulfide-linked HLA-G dimer.Shiroishi M., Kuroki K., Ose T., Rasubala L., Shiratori I., Arase H., Tsumoto K., Kumagai I., Kohda D., Maenaka K.J. Biol. Chem. 281:10439-10447(2006)
------------	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504415
NCBI GeneID	3135
NCBI Accession #	NP_002118.1
NCBI GenBank Nucleotide #	NM_002127.5
UniProt Accession #	P17693
Molecular Weight	39.6 kDa
NCBI Official Full Name	HLA class I histocompatibility antigen, alpha chain G
UniProt Protein Name	HLA class I histocompatibility antigen, alpha chain G
UniProt Gene Name	HLA-G
UniProt Synonym Gene Names	HLA-6.0; HLAG
UniProt Entry Name	HLAG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.