
Product Data Sheet

Product Name: HLA-G Human

Cat. No.: GP23652

Batch No.: 1

Product Data

Purity >98% Source Escherichia Coli.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms Major Histocompatibility Complex; Class I; G; HLA-G Histocompatibility Antigen; Class I; G; MHC Class I Antigen G; B2 Microglobulin; HLA G Antigen; HLA Class I Histocompatibility Antigen; Alpha Chain G; Mutant MHC Class Ib Antigen; Mutant MHC Class I Antigen; MHC Class Ib Antigen; HLA-6.0; MHC-G; HLAG; HLA class I histocompatibility antigen; alpha chain G; HLA G antigen; MHC class I antigen G.

Amino Acid Sequence MGSSHHHHHH SSGLVPRGSH MGSHMGSHSM RYFSAAVSRP GRGEPRIAM GYVDDTQFVR FSDSACPRM EPRAPWVEQE GPEYWEEETR NTKAHAQTDR MNLQTLRGYY NQSEASSHTL QWMIGCDLGS DGRLLRGYEQ YAYDGKDYLE LNEDLRSWTA ADTAAQISKR KCEAANVAEQRRAYLEGTCV EWLHRYLENG KEMLQRADPP KTHVTHHPVF DYEATLRCWA LGFYPAEIIIL TWQRDGEDQT QDVELVETRP AGDGTFQKWA AVVVPSEEEQ RYTCHVQHEG LPEPLMLRWK QSSLPTIPI.

Formulation HLA-G protein solution (0.25mg/ml) contains 20% glycerol and PBS.

Introduction

HLA-G (Major Histocompatibility Complex Class I G) is a member of the HLA class I heavy chain paralogues. This class I molecule is a heterodimer which comprises a heavy chain as well as a light chain, beta-2 microglobulin, while the heavy chain is fixed in the membrane. HLA-G is expressed on fetal derived placental cells. HLA-G is a non-classical class-I HLA molecule linked with immuno-modulatory & anti-inflammatory properties which interacts with inhibitory receptors such as, ILT2/ILT4/KIR2DL4, that are present on different immune cells. HLA-G inhibits the proliferation of T cells, B cells & natural killer cells, moreover it also induces regulatory T cells.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

HLA-G Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 309 amino acids (25-308 a.a) and having a molecular mass of 35.3kDa. HLA-G is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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