
Product Data Sheet

Product Name: CTLA4 Mouse
 Cat. No.: GP20157
 Batch No.: 1

Product Data

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|---------------------|---|--------------------|-------------------------|
| Purity | >98% | Source | Sf9 Insect cells. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | Cytotoxic T-lymphocyteprotein 4; Cytotoxic T-lymphocyte-associated antigen 4; CTLA-4; CD152; Ctla4;Cd152. | | |
| Amino Acid Sequence | IQVTQPSVVL ASSHGVASFP CEYSPSHNTD EVRVTVLRQT NDQMTEVCAT TFTEKNTVGF LDYPCFCSTG NESRVNLTIQ GLRAVDTGly LCKVELMYPP PYFVGMGNGT QIYVIDPEPC PDSLEPKSC DKHTCPCP APELLGGPSV FLFPPKPKDT LMISRTPEVT CVVVDVSHEDPEVKFNWYVD GVEVHNAKTK PREEQYNSTY RVSVLTVLH QDWLNGKEYK CKVSNKALPA PIEKTISKAK GQPREPQVYT LPPSRDELTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN YKTTTPVLDS DGSFFLYSKL TVDKSRWQQG NVFSCSVMHE ALHNHYTQKS LSLSPGKHHHHHH. | | |
| Formulation | CTLA4 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol. | | |

Introduction

CTLA-4 is a member of the immunoglobulin superfamily and encodes a protein which transmits an inhibitory signal to T cells. The protein contains a V domain, a transmembrane domain, and a cytoplasmic tail. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. The membrane-bound isoform functions as a homodimer interconnected by a disulfide bond, while the soluble isoform functions as a monomer. Mutations in this gene have been associated with insulin-dependent diabetes mellitus, Graves disease, Hashimoto thyroiditis, celiac disease, systemic lupus erythematosus, thyroid-associated orbitopathy, and other autoimmune diseases.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

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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

CTLA4 Mouse Recombinant produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 363 amino acids (38-161aa) and having a molecular mass of 40.6kDa (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). CTLA4 is fused to a 239 amino acid hlgG-His-tag at C-terminus & purified by proprietary chromatographic techniques.

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