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## Product Data Sheet

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Product Name: CTLA4 Human, IgG-His, Active

Cat. No.: GP26014

Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	CTLA4, ALPS5, CD, CD152, CELIAC3, CTLA-4, GRD4, GSE, IDDM12, CD152, Cytotoxic T-Lymphocyte Associated Antigen-4, igG-His Tag.		
Amino Acid Sequence	ADLKAMHVAQ PAVVLASSRG IASFVCEYAS PGKATEVRVT VLRQADSQVT EVCAATYMMGNELTFLDDSI CTGTSSGNQV NLTIQGLRAM DTGLYICKVE LMYPPPYLIG INGTQIYVIDPEPCPDSDL EPKSCDKTHT CPPCPAPELL GGPSVFLFPP KPKDTLMISR TPEVTCVVVDVSHEDPEVKF NWYVDGVEVH NAKTKPREEQ YNSTYRVVSV LTVLHQDWLN GKEYKCKVSNKALPAPIEKT ISKAKGQPRE PQVYTLPPSR DELTKNQVSL TCLVKGFYPS DIAVEWESNGQPENNYKTTTP PVLDSGDGSFF LYSKLTVDKS RWQQGNVFSC SVMHEALHNH YTQKSLSLSP GKHHHHHH		
Formulation	The CTLA4 solution (0.5mg/ml) contains 10% Glycerol and Phosphate-Buffered Saline (pH 7.4).		

**Introduction**

Cytotoxic T-lymphocyte-associated protein 4 or CTLA4 or CD152 is a receptor that takes part in the immune checkpoint and inhibits immune response. This protein is fundamentally found in regulatory T cells; however, it acts as an enhancer in regular T cells following its activation, this is eminent in cancers. CTLA4 bounds to CD80 or CD86 on the membrane of antigen presenting cells and downregulates transductions.

**Biological Activity**

Determined by the IL-2 ELISA in a using Jurkat human acute T cell leukemia cells. ED50 range for this is  $\leq 150$  ng/ml with Human B7 1/CD80.

**Stability**

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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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

CTLA4 Human produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 368 amino acids (36-161aa) and having a molecular mass of 40.8kDa. CTLA4 is fused to a 242 amino acid hlgG-His-Tag at C-terminus and purified by proprietary chromatographic techniques.

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