

DATASHEET

Version 2016-08-02

CTLA-4 Fc Chimera, Human**Cat. No.:** Z03373-1**Size:** 1 mg**Synonyms:** CTLA-4**Description:**

CTLA-4 is a member of the Ig superfamily, having a single extracellular V-like domain, homology with CD28; The overall sequence homology between CD28 and CTLA-4 is about 20%, but they share a 27%(murine) to 31%(human) identity at the amino acid level. Inhibitory receptor acting as a major negative regulator of T-cell responses. The affinity of CTLA-4 for its natural B7 family ligands, CD80 and CD86, is considerably stronger than the affinity of their cognate stimulatory coreceptor CD28.

Recombinant Human CTLA-4 Fc Chimera produced in *CHO* cells is a polypeptide chain containing 359 amino acids with the C-terminal human IgG1 Fc fragment. A fully biologically active molecule, rhCTLA-4 has a molecular mass of 45-48 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:

AMHVAQPAVV LASSRGIASF VCEYASPGKA TEVRVTVLRQ

ADSQVTEVCA ATYMMGNELT FLDDSICTGT SSGNQVNLT
QGLRAMDTGL YICKVELMYP PPYYLGIGNG TQIYVIDPEP
CPDSDF**Source:** *CHO***Species:** Human**Biological Activity:** Active, measured by its ability to inhibit IL-2 secretion by co-culturing stimulated Jurkat human acute T cell leukemia cells and CD80 expression CHO stable cell line.**Molecular Weight:** 45-48 kDa, observed by reducing SDS-PAGE.**Formulation:** Lyophilized from a 0.2 µm filtered solution in PBS.**Reconstitution:** Reconstituted in ddH₂O or PBS at 100 µg/ml.**Purity:** > 98% as analyzed by reducing SDS-PAGE.**Endotoxin Level:** <0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant Human CTLA-4 remains stable up to 6 months at -80°C from date of receipt. Upon **reconstitution Human CTLA-4** should be stable up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

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