

Overview

Synonyms	CTLA-4
Description	<p>Cytotoxic T lymphocyte-associated molecule-4 (CTLA-4) is a cell surface molecule that is closely related to CD28, and a powerful negative regulator of T cell activation. Structurally, 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.</p> <p>Recombinant Human CTLA-4 Fc Chimera produced in <i>CHO</i> cells is a polypeptide chain containing 378 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.</p>
Species Source	Human <i>CHO</i>
Biological Activity	<p>Activity1: 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.</p> <p>Activity2: Immobilized B7-2(CD86), His, Human(Cat.No.Z03452) at 2 µg/mL (100 µL/well) can bind CTLA-4 Fc Chimera, Human with a linear range of 0.97-7.8 ng/mL</p>
Sequence	<p>AMHVAQPAVV LASSRGIASF VCEYASPGKA TEVRVTVLRQ ADSQVTEVCA ATYMMGNELT FLDDSICTGT SSGNQVNLT QGLRAMDTGL YICKVELMYP PPYYLGIGNG TQIYVIDPEP CPDSDF</p>

Properties

Measured Molecular Weight	45-48 kDa, observed by reducing SDS-PAGE.
Purity	> 98% as analyzed by reducing SDS-PAGE.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	<0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Human CTLA-4 remains stable up to 6 months at lower than -70°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.
Note	For research use only

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