DATASHEET
Version 20181206

CTLA-4 Fc Chimera, Human

Cat. No.: Z03373-50

Size: 50.0 ug

Synonyms: CTLA-4

Description:

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. Recombinant Human CTLA-4 Fc Chimera produced in *CHO* cells is a polypeptide chain containing 378 amino acids with the C-termimal 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:

```
00001 AMHVAQPAVV LASSRGIASF VCEYASPGKA TEVRVTVLRQ
00041 ADSQVTEVCA ATYMMGNELT FLDDSICTGT SSGNQVNLTI
00081 QGLRAMDTGL YICKVELMYP PPYYLGIGNG TQIYVIDPEP
00121 CPDSDF
```

Source: *CHO*

Species: Human

Biological Activity: 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.
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

Molecular Weight: 45-48 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized from a 0.2 μm filtered solution in PBS.

Reconstitution: Reconstituted in ddH_2O 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 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.

GenScript USA, Inc.
860 Centennial Ave. Piscataway, NJ 08854
Tel: 1-877-436-7274; 1-732-885-9188