

Rev04
 Update: Mar,01,2022

DATASHEET

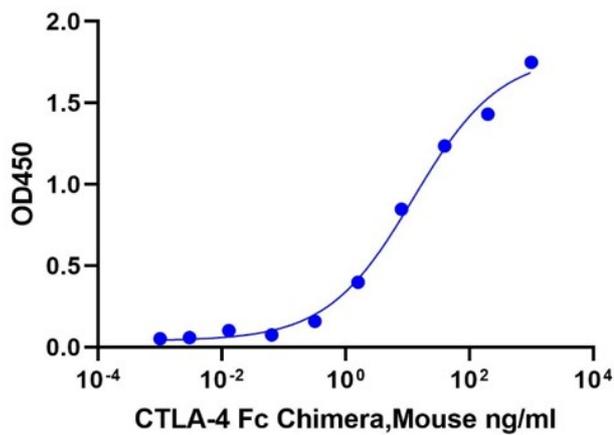
CTLA-4 Fc Chimera, Mouse

Cat. No.: Z03391

Product Introduction

Species	Mouse
Protein Construction	
Purity	> 90% as analyzed by SDS-PAGE
Endotoxin Level	< 1 EU/μg of protein by gel clotting method
Biological Activity	Immobilized Mouse B7-1/CD80 Protein, His Tag at 2.0 μg/ml can bind CTLA-4, mFc, Mouse with EC ₅₀ =12.57 ng/ml when detected by M6 Goat Anti Mouse FC.
Expression System	CHO
Apparent Molecular Weight	~54.3 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for 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.

Examples



Mouse B7-1/CD80 Protein, His Tag at 2 $\mu\text{g/ml}$ (100 $\mu\text{l/well}$) can bind CTLA-4 Fc Chimera, Mouse with $\text{EC}_{50}=12.57 \text{ ng/ml}$ when detected by M6 Goat Anti Mouse FC. Background was subtracted from data points before curve fitting.

Background

Target Background : CTLA-4 (Cytotoxic T-Lymphocyte Antigen 4) is also known as CD152, is an Inhibitory receptor acting as a major negative regulator of T-cell responses. CTLA-4 is a member of the immunoglobulin superfamily, which is expressed on the surface of T cells and transmits an inhibitory signal to T cells. CTLA-4 and CD28 are homologous receptors expressed by both CD4+ and CD8+ T cells, which mediate opposing functions in T-cell activation. Both receptors share a pair of ligands expressed on the surface of antigen-presenting cells (APCs). The affinity of CTLA-4 for its natural B7 family ligands, CD80 and CD86, is considerably stronger than the affinity of their cognate stimulatory co-receptor CD28.

Synonyms : CD152

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.