



Product Datasheet

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Recombinant Human CTLA-4 Fc Silent™-Fusion Protein

Cat No: Pr00103-10.13

Product Summary

Description: Recombinant Human CTLA-4 [Fc Silent™](#)-Fusion Protein manufactured using [AbAb's Recombinant Platform](#)

Protein: Human CTLA-4

Fc domain: Human IgG1

Structure / Form: Disulfide-linked homodimer

Species: Human

Construct: Human CTLA-4 (A37-F162)-G4S linker-human IgG1 Fc (E216-G446)

Construct Design Note(s): The extracellular domain of CTLA-4 has been fused to the Fc domain of human IgG1.

Host: HEK293

UniProt Accession Number: P16410

Alternative Description: Cytotoxic T-lymphocyte protein 4; CTLA4, CD152; CTLA-4-Ig; CTLA-4-Fc chimera; CTLA-4 (Fc tag); non-lytic CTLA-4 Fc-Fusion

Published Application(s): ELISA, FC, *in vivo*

Tested Applications(s): FC

Activity: CTLA-4 binds to CD80 (B7-1) and CD86 (B7-2) with high affinity and competitively inhibits CD28 signaling.

Product Form

Purification: IMAC purified

Supplied in: PBS with preservative (0.02% Proclin 300)

Endotoxin: <1.0 EU/mg

Shipping: The product is shipped on blue ice. Upon receipt, store it immediately at the temperature recommended.

Storage Recommendation: Store at 4°C for up to 1 month. For longer term storage aliquot in small volumes and store at -20°C. Avoid repeated freeze-thaw cycles.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals

SDS PAGE Purity: >95%, as determined by SDS-PAGE and visualized by Coomassie Brilliant Blue.

Fc-Fusion Sequence (monomer)

AMHVAQPAVVLASSRGIASFVCEYASPGKATEVRVTVLRQADSQVTEVCAATYMMGNELTFLDDSICTGTSSGNQVN

LTIQGLRAMDTGLYICKVELMYPPPYLGI^GNGTQIYVIDPEPCPDSDFGGGGS

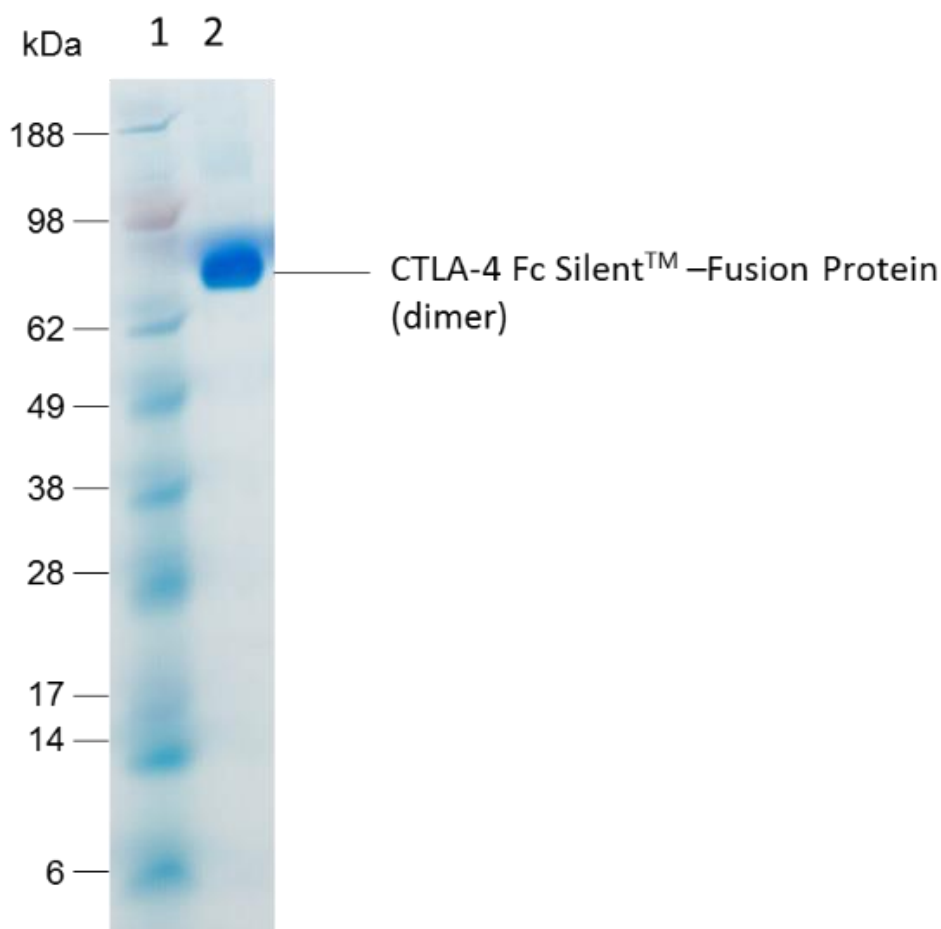
Fc-Silent™

HHHHHH

Underlined amino acids sequence include a G4S linker and 6xHis epitope tag, respectively.

Calculated Molecular weight (dimer): 81.3 kDa

Extinction coefficient: 93330 M⁻¹ cm⁻¹ (calculation performed as described by Pace et al. (1995), PMID: 8563639).



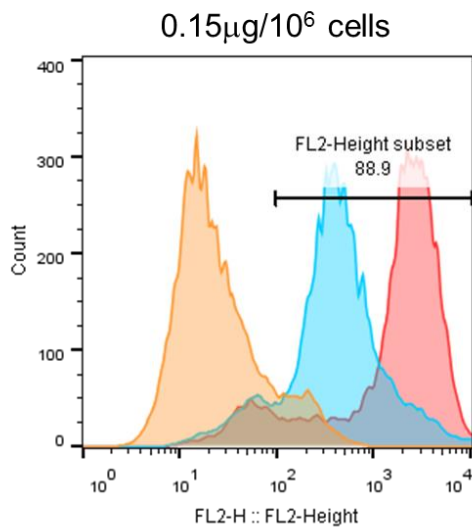
Lane 1. Molecular Mass Markers

Lane 2. 2.5 µg of Recombinant Human CTLA-4 Fc Silent™-Fusion Protein dimer (Pr00103-10.13) resolved with SDS-PAGE under non-reducing conditions and visualized by Coomassie Brilliant Blue

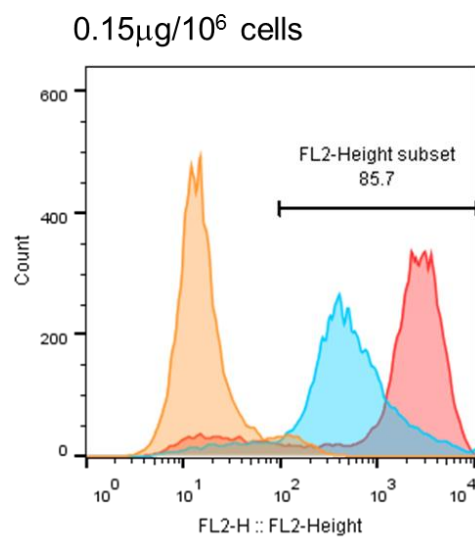
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Binding of CTLA-4 Fc-Fusion Protein (Pr00103) to mouse CD80/86 expressed on bone marrow derived dendritic cells (bmDC): Flow Cytometry data

Pr00103 CTLA-4 Fc-fusion protein



Abatacept (Therapeutic CTLA-4 Fc-Fusion protein)



Mouse bmDC stained with anti-human IgG biotin + SAPE only (orange); CTLA-4 Fc-Fusion protein and anti-human IgG biotin + SAPE (blue) and mouse bmDC stimulated with LPS and stained with CTLA-4 Fc-Fusion protein and anti-human IgG biotin + SAPE with LPS (red).

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