



Recombinant Human CTLA-4 Fc-Fusion Protein (Abatacept)

Cat No: Pr00136

Product Summary

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

Protein: Human CTLA-4

Fc domain: Human IgG1

Structure / Form: Disulfide-linked homodimer

Species: Human

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, Cytotoxic T-lymphocyte-associated antigen 4, CTLA-4, CD152; CTLA-4-Ig; CTLA-4-Fc chimera; CTLA-4 (Fc tag)

Published Application(s):

Tested Applications(s):

Activity: Inhibitory receptor acting as a major negative regulator of T-cell responses. The affinity of CTLA4 for its natural B7 family ligands, CD80 and CD86, is considerably stronger than the affinity of their cognate stimulatory coreceptor CD28. The therapeutic antibody Ipilimumab competes for the binding site of the endogenous ligands CD80/B7-1, CD86/B7-2 and ICOSLG [Uniprot].

Product Form

Purification: IMAC purified

Supplied in: 0.1 mg size: PBS with preservative (0.02% Proclin 300), 1 mg size: PBS only.

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.

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

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

Fc-Fusion Sequence (monomer)

MHVAQPAVVLASSRGIASFVCEYASPGKATEVRVTVLRQADSQVTEVCAATYMMGNELTFLDDSICTGTSSGNQVNLT
QGLRAMDTGLYICKVELMYPPPYLIGIGNGTQIYVIDPEPCPDSQEPKSSDKTHTSPPSPAPPELLGGSSVFLFPPKPK
DTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSN
KALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSGFS
FLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGKGGGGSEPKSQDKTHTCPPCPAPPELLGGPSVFLFP
PKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYK
KVSNAKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDS
DGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGHHHHH

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

Calculated Molecular weight (dimer): 132321.32 Da

Extinction coefficient: 161150 (calculation performed as described by Pace *et al.* (1995), PMID: 8563639).

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