

## Product datasheet for **AR50783PU-N**

### CD152 / CTLA4 (36-161, His-tag) Human Protein

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | CD152 / CTLA4 (36-161, His-tag) human recombinant protein, 0.5 mg   |
| Species:                              | Human   |
| Expression Host:                      | E. coli   |
| Expression cDNA Clone or AA Sequence: | <u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> <u>MGSKAMHVAQ</u> PAVVLASSRG IASFVCEYAS PGKATEVRVT VLRQADSQVT EVCAATYMMG NELTFLDDSI CTGTSSGNQV NLTIQGLRAM DTGLYICKVE LMYPPIYYLG IGGTQIYVI DPEPCPDSD   |
| Tag:                                  | His-tag   |
| Predicted MW:                         | 15.9 kDa  |
| Concentration:                        | lot specific  |
| Purity:                               | >90% pure by SDS-PAGE   |
| Buffer:                               | Presentation State: This purified protein is available in a denatured form, making it less suitable for functional studies. Denatured proteins are better suited for applications like Western Blot (WB) or imaging assays.<br>State: Liquid purified protein<br>Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol |
| Preparation:                          | Liquid purified protein   |
| Protein Description:                  | Recombinant Human CTLA4 protein, fused to <u>His-tag</u> at N-terminus, was expressed in <i>E.coli</i> .  |
| Storage:                              | Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.   |
| Stability:                            | Shelf life: one year from despatch.   |
| RefSeq:                               | <u>NP_001032720</u>   |
| Locus ID:                             | 1493  |
| UniProt ID:                           | <u>P16410</u>   |
| Cytogenetics:                         | 2q33.2  |
| Synonyms:                             | CTLA-4  |



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**Summary:**

This gene is a member of the immunoglobulin superfamily and encodes a protein which transmits an inhibitory signal to T cells. The protein contains a V domain, a transmembrane domain, and a cytoplasmic tail. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. The membrane-bound isoform functions as a homodimer interconnected by a disulfide bond, while the soluble isoform functions as a monomer. Mutations in this gene have been associated with insulin-dependent diabetes mellitus, Graves disease, Hashimoto thyroiditis, celiac disease, systemic lupus erythematosus, thyroid-associated orbitopathy, and other autoimmune diseases. [provided by RefSeq, Jul 2008]

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

Autoimmune thyroid disease, Cell adhesion molecules (CAMs), T cell receptor signaling pathway

**Product images:**