

AR50783PU-S

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

Alternate names:	CTLA-4, Cytotoxic T-lymphocyte protein 4, Cytotoxic T-lymphocyte-associated antigen 4
Quantity:	0.1 mg
Concentration:	1 mg/ml (determined by Bradford assay)
Background:	CTLA4 is a member of the immunoglobulin superfamily and 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.
Uniprot ID:	P16410
NCBI:	NP_005205
GeneID:	1493
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >90% pure by SDS-PAGE Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Description:	Recombinant Human CTLA4 protein, fused to <i>His-tag</i> at N-terminus, was expressed in <i>E.coli</i> . AA Sequence: MGSSHHHHHH SSGLVPRGSH MGSKAMHVAQ PAVVLASSRG IASFVCEYAS PGKATEVRVT VLRQADSQVT EVCAATYMMG NELTFLDDSI CTGTSSGNQV NLTIQGLRAM DTGLYICKVE LMYPPPYLIG INGTQIYVI DPEPCPDS Molecular weight: 15.9 kDa (149aa)
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. Shelf life: one year from despatch.
General Readings:	1. Rudd CE, Taylor A, Schneider H. CD28 and CTLA-4 coreceptor expression and signal transduction. Immunol Rev. 2009 May;229(1):12-26. doi: 10.1111/j.1600-065X.2009.00770.x. PubMed PMID: 19426212. 2. Stamper CC, Zhang Y, Tobin JF, Erbe DV, Ikemizu S, Davis SJ, et al. Crystal structure of the B7-1/CTLA-4 complex that inhibits human immune responses. Nature. 2001 Mar 29;410(6828):608-11. PubMed PMID: 11279502.

Pictures:

