

CD28 Human

CD28 Human Recombinant

Catalog Number: C65618
Issuance Date: 8 June 2018

Overview

Synonyms	T-cell-specific surface glycoprotein CD28, TP44, CD_antigen: CD28, T-cell-specific surface glycoprotein CD28 isoform 1.
Introduction	CD28 co-stimulation is necessary for CD4 positive T-cell proliferation & survival, interleukin-2 production, and T-helper type-2 development. Human post-thymic regulatory T cells require CD28 co-stimulation to expand and maintain potent suppressive function in vivo. Apoptosis plays a key role in the age-related decline of CD28 expression and in immunosenescence.
Description	CD28 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 376 amino acids (19-152a.a.) and having a molecular mass of 42.4kDa (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). CD28 is expressed with a 242 amino acids hlgG-His tag at C-Terminus and purified by proprietary chromatographic techniques.
Source	Sf9, Baculovirus cells.

Properties

Physical Appearance	Sterile filtered colorless solution.
Formulation	CD28 protein solution (1mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.
Purity	Greater than 90.0% as determined by SDS-PAGE.
Amino acid sequence	ADPNKILVKQ SPMLVAYDNA VNLCKYSYN LFSREFRASL HKGLDSAVEV CVVYGNYSQQ LQVYSKTGFN CDGKLGNEV TFYLNLYVN QTDIYFKIE VMYPPPYLDN EKSNGTIIHV KGKHLCPSP L FPGPSKPLEP KCDKHTTCP PCPAPELLGG PSVFLFPPKP KDTLMISRTP EVTCVVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN STYRVVSVLT VLNQDQWLNGK EYKCKVSNKA LPAPIEKTIS KAKGQPREPQ VYTLPPSRDE LTKNQVSLTLC LVKGFYPSDI AVEWESNGQP ENNYKTTTPV LDSDGSFFLY SKLTVDKSRW QQGNVFCVSV MHEALHNHYT QKSLSLSPGK HHHHHH.

Storage

Stability	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------