
Product Data Sheet

Product Name: CD28 Human
 Cat. No.: GP23023
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	T-cell-specific surface glycoprotein CD28; TP44; CD_antigen: CD28; T-cell-specific surface glycoprotein CD28 isoform 1.		
Amino Acid Sequence	<p>ADPNKILVKQ SPMLVAYDNA VNLCKYSYN LFSREFRASL HKGLDSAVEV CVVYGNYSQQ LQVYSKTGFN CDGKLGNESV TFYLQNLVYN QTDIYFCKIE VMYPPPYLDN EKSNGTIIHV KGKHLCPSP L FPGPSKPLEP KSCDKTHTCP PCPAPELLGG PSVFLFPPKP KDTLMIS RTP EVTCVVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN STYRVVSVLT VLNQDQWLNGK EYKCKVSNKA LPAPIEKTIS KAKGQPREPQ VYTLPPSRDE LTKNQVSLTC LVKGFYPSDI AVEWESNGQP ENNYKTTTPV L DSDGSFFLY SKLTVDKSRW QQGNVFSCSV MHEALHNHYT QKSLSLSPGK HHHHHH.</p>		
Formulation	CD28 protein solution (1mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

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.

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.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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