
Product Data Sheet

Product Name: CD6 Human
 Cat. No.: GP26233
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	T-cell differentiation antigen CD6, T12, TP120, CD6, CD antigen, T-cell differentiation antigen CD6 isform1		
Amino Acid Sequence	ADPHPSPAPP DQLNTSSAES ELWEPGERLP VRLTNGSSSC SGTVEVRLEA SWEPACGALW DSRAAEAVCR ALGCGGAEAA SQLAPPTPEL PPPPAAGNTS VAANATLAGA PALLCSGAEW RLCEVVEHAC RSDGRRARVT CAENRALRLV DGGGACAGRV EMLEHGEWGS VCDDTWDLED AHVVCRLGVC GWAVQALPGL HFTPGRGPIH RDQVNCSGAE AYLWDCPGLP GQHYCGHKED AGAVCSEHQS WRLTGGADRC EGQVEVHFRG VWNTVCDSEW YPSEAKVLCQ SLGCGTAVER PKGLPHSLSG RMYYSNGEE LTLNCSWRF NNSNLCSQSL AARVLCASR SLHNLSTPEV PASVQTVTIE SSVTVKIENK ESREMLLVE PKSCDKTHTC PPCPAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTPPP VLDSGGSFFL YSKLTVDKSR WQQGNVFSCS VMHEALHNHY TQKSLSLSPG KHHHHHH		
Formulation	CD6 protein solution (0.5mg/ml) contains 10% glycerol and Phosphate-Buffered Saline (pH 7.4).		

Introduction

CD6 is a cell surface glycoprotein expressed primarily on T cells. CD6 is expressed by mature T-cells, thymocytes, a subset of B-cells known as B-1 cells, and by cells in the brain (some of them). CD6 is a member of the group B SRCR (scavenger receptor cysteine-rich) superfamily. CD6 plays a role as both a co-stimulatory molecule in T cell activation and as an adhesion receptor. CD6 binds to CD166 and is considered as a costimulatory molecule involved in lymphocyte activation and thymocyte development.

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

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Biological Activity

When cells are added to human CD6 coated plates at 10 ug/ml, this effect is more to 50%. It is defined as the ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells.

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

CD6 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 627 amino acids (18-402a.a.) and having a molecular mass of 68.3kDa. CD6 is expressed with a 239 amino acid hIgG-His-Tag at C-Terminus and purified by proprietary chromatographic techniques.

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