
Product Data Sheet

Product Name: CD276 Human

Cat. No.: GP23042

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CD276 Molecule; CD276 Antigen; Costimulatory Molecule; B7 Homolog 3; 4Ig-B7-H3; B7-H3; B7H3; B7RP-2.		
Amino Acid Sequence	LEVQVPEDPV VALVGTDATL CCSFSPEPGF SLAQLNLIWQ LTDTKQLVHS FAEGQDQGSA YANRTALFPD LLAQGNASLR LQRVVADEG SFTCFVSIRD FGSAAVSLQV AAPYSKPSMT LEPNKDLRPG DTVTITCSSY QGYPEAEVFW QDGQGVPLTG NVTTSQMANE QGLFDVHSIL RVVLGANGTY SCLVRNPVLQ QDAHSSVTIT PQRSPGTAVE VQVPEDPVVA LVGTDATLRC SFSPEPGFSL AQLNLIWQLT DTKQLVHSFT EGRDQGSAYA NRTALFPDLL AQGNASLRLQ RVRVADEGSF TCFVSIRDFG SAAVSLQVAA PYSKPSMTLE PNKDLRPGDT VTITCSSYRG YPEAEVFWQD GQGVPLTGNV TTSQMANEQG LFDVHSVLRV VLGANGTYSC LVRNPVLQQD AHGSVTITGQ PMTFPPEALE HHHHHH.		
Formulation	CD276 protein solution (0.5mg/ml) contains Phosphate buffered saline (pH7.4) and 10% glycerol.		

Introduction

CD276, belongs to the B7 family of immunoregulatory transmembrane glycoproteins expressed by T cells. CD276 is a costimulatory molecule for T cell activation in addition to IFN-gamma production. Furthermore CD276 upregulates BRCC3 expression, preventing DNA defects caused by 5-Fu. CD276 is correlated with TNM stage of NSCLC and act as a potential biomarker for NSCLC-derived MPEs. CD276 inhibits natural-killer mediated cell lysis in tumor cells, and act as a marker for detection of neuroblastoma cells. CD276 is implicated in the development of acute as well as chronic transplant rejection and in the regulation of lymphocytic activity at mucosal surfaces. In addition, CD276 provides the placenta & fetus a proper immunological environment during the course of pregnancy.

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

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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

CD276 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 446 amino acids (29-466a.a.) and having a molecular mass of 48.1kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). CD276 is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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