
Product Data Sheet

Product Name: CD40 Human
 Cat. No.: GP23057
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CD40 Molecule; TNF Receptor Superfamily Member 5; TNFRSF5; Tumor Necrosis Factor Receptor Superfamily; Member 5; Bp50; B-Cell Surface Antigen CD40; CD40L Receptor; CDW40; B Cell Surface Antigen CD40; BCell-Associated Molecule; CD40 Antigen (TNF Receptor Superfamily Member 5); CD40 Type II Isoform; Nerve Growth Factor Receptor-Related B-Lymphocyte Activation Molecule; p50; Tumor Necrosis Factor Receptor Superfamily Member 5; CDw40; CD40 Antigen.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSEPPTACR EKQYLINSQC CSLCQPGQKL VSDCTEFTET ECLPCGESEFLDTWNRETHC HQHKYCDPNL GLRVQQKGTS ETDTICTCEE GWHCTSEACE SCVLHRSCSP GFGVKQIATGVSDTICEPCP VGFFSNVSSA FEKCHPWTSC ETKDLVVQQA GTNKTDVVCG PQDRLR		
Formulation	CD40 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

CD40 belongs to the TNF-receptor super family. CD40 has been found to be vital in mediating a wide range of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. The transcription factor NF- κ B is accounted to coordinately regulate the expression of CD40 and its ligand, which is significant for homotypic cell interactions. Adaptor protein TNFR2 interacts with CD40 and functions as a mediator of the signal transduction. The interaction of CD40 and its ligand is found to be essential for amyloid-beta-induced microglial activation, and therefore is considered to be an early event in Alzheimer disease pathogenesis.

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). Please avoid freeze thaw cycles.

Background

CD40 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 196 amino acids (21-193a.a) and having a molecular mass of 21.6kDa. CD40 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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