
Product Data Sheet

Product Name: CD40 Mouse
 Cat. No.: GP23058
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tumor necrosis factor receptor superfamily member 5; B-cell surface antigen CD40; Bp50; CD40L receptor; CD40.		
Amino Acid Sequence	LGQCVTCSDKQYLHDGQCCD LCQPGSRLTS HCTALEKTQC HPCDSGEFSA QWNREIRCHQ HRHCEPNQGL RVKKEGTAESDTVCTCKEGQ HCTSKDCEAC AQHTPCIPGF GVMEMATETT DTVCHPCPVG FFSNQSSLFE KCYPWTSCEDKNLEVLQKGT SQTNVICGLK SRMRHHHHHH.		
Formulation	CD40 protein solution (1.0mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

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. AT-hook transcription factor AKNA 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.

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.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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CD40 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 180 amino acids (20-193 a.a.) and having a molecular mass of 20.1kDa (Migrates at 18-28kDa on SDS-PAGE under reducing conditions).

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