



Recombinant Rat CD40 Protein (a.a. 1-193) [His] (DAGC041)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	A DNA sequence encoding the rat CD40 (NP_599187.1) (Met1-Arg193) was expressed, fused with a polyhistidine tag at the C-terminus.
Species	Rat
Purity	> 95 % as determined by SDS-PAGE.
Conjugate	His
Applications	SDS-PAGE
Molecular Weight	The recombinant rat CD40 comprises 185 amino acids and predicts a molecular mass of 20.6 kDa. The apparent molecular mass of the recombinant protein is approximately 28 kDa in SDS-PAGE under reducing conditions due to glycosylation.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Format	Lyophilized
Size	50 µg, 100 µg
Buffer	Lyophilized from sterile PBS, pH 7.4, 10% glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Preservative	None
Storage	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

BACKGROUND

Introduction

Tumor necrosis factor receptor superfamily member 5 (TNFRSF5) is also known as CD40, is a member of the TNF receptor superfamily. The expression of CD40 is diverse. TNFRSF5 has been found to be essential in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. CD40 is the receptor for TNFSF5/CD40LG. Defects in CD40 are the cause of immunodeficiency with hyper-IgM type 3 (HIGM3).

Keywords

CD40; Bp50; CDW40; MGC9013; TNFRSF5; p50