CREATIVE BIOMART®
Immune Checkpoints

Recombinant Human CD70 protein, N-hFc-Avi Tag, Biotinylated

Product Information

Cat	*IMP-356*
Official Symbol	*CD70*
Product Overview	*Biotinylated Recombinant Human CD70 protein (NP_001243.1) (Gln39-Pro193) was expressed in HEK293, fused with a N-terminal Fc region of human IgG1 tagged AVI tag at the N-terminus.*
Description	*CD70, a member of the tumor necrosis factor superfamily, is restricted to activated T-and B-lymphocytes and mature dendritic cells. Binding of CD70 to its receptor, CD27, is important in priming, effector functions, differentiation and memory formation of T-cells as well as plasma and memory B-cell generation. Tight control of CD70 expression is required to prevent lethal immunodeficiency. By selective transcription, CD70 is largely confined to activated lymphocytes and dendritic cells (DC). As a type II transmembrane receptor, CD70 is normally expressed on a subset of B, T and NK cells, where it plays a costimulatory role in immune cell activation. Immunohistochemical analysis of CD70 expression in multiple carcinoma types. The restricted expression pattern of CD70 in normal tissues and its widespread expression in various malignancies makes it an attractive target for antibody-based therapeutics. Investigations to exploit CD70 as a cancer target have lead to the identification of potential antibody-based clinical candidates.*
Expression System	*HEK293*
Species	*Human*
Tag	*N-hFc-Avi Tag*
Predicted N Terminal	*Gly*
Form	*Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.*
Molecular Mass	*The recombinant human CD70 consists of 408 amino acids and predicts a molecular mass of 45.7 kDa.*
Protein length	*Gln 39-Pro 193*
Endotoxin	*< 1.0 EU per μg protein as determined by the LAL method.*
Purity	*> 80 % as determined by SDS-PAGE.*
Storage	*Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is*

45-1 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-559-9269 1-516-512-3133 E-mail: info@creative-biomart.com

recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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