


## Human CD40/TNFRSF5 protein, His tag (Animal-Free)

Cat #: PRP2035

Size: 10 µg/ 50 µg/100 µg/1 mg

### Product Information

	<b>Product Name:</b> Human CD40/TNFRSF5 protein, His tag (Animal-Free)		
<b>REF</b>	<b>Catalog Number:</b> PRP2035	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> >95% as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20C		<b>Preparation method:</b> HEK 293 Cells
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** CD40 is a 48 kDa type I transmembrane protein that is constitutively expressed on hematopoietic cells such as dendritic cells, macrophages, and B cells. CD40 is a TNF receptor superfamily member expressed on both immune and non-immune cells. Interactions between B cell-expressed CD40 and its binding partner, CD40L, predominantly expressed on activated CD4+ T cells, play a critical role in promoting germinal center formation and the production of class-switched antibodies. The involvement of CD40 in chronic immune activation has resulted in CD40 being proposed as a therapeutic target for a range of chronic inflammatory diseases. CD40 antagonists are currently being explored for the treatment of autoimmune diseases and several anti-CD40 agonist mAbs have entered clinical development for oncological indications.

**Sequence:** Amino acid sequence derived from human CD40 protein (NP\_001241.1, Met1-Arg193) was expressed with a polyhistidine tag at the C-terminus.

**Protein length:** The recombinant human CD40 protein consists of 179 amino acids and predicts a molecular mass of 20 kD. The apparent molecular mass of the human CD40 is approximately 25-33 kDa in SDS-PAGE under reducing conditions due to glycosylation.

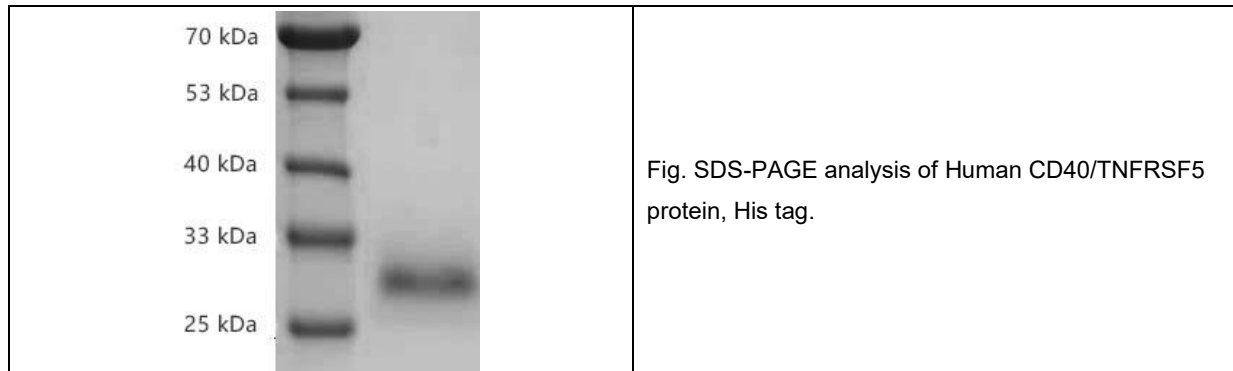
**Biological Activity:** Testing in progress.

**Endotoxin:** < 1 EU per µg of the protein as determined by the LAL method.

**Formulation:** Lyophilized from sterile PBS, pH 7.4.

**Storage Instructions:** Lyophilized human CD40 protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2 -7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized human CD40 protein in the buffer which we provide not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.



**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.