

Active Recombinant Cynomolgus TNFRSF6B protein, Fc-tagged

Cat. No. TNFRSF6B-253C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cynomolgus TNFRSF6B(Ala30-His300) fused Fc region of Human IgG1 at C-terminal was expressed in CHO.
Species	Cynomolgus
Source	CHO
ProteinLength	30-300 a.a.
Description	DcR3 (Decoy Receptor 3), also known as TR6 and TNFRSF6B is a 35-40 kDa secreted member of the TNF Receptor superfamily. Mature cynomolgus DcR3 contains four tandem TNFR cysteine-rich domains and shares 92% amino acid sequence identity with human DcR3. It binds to the TNF superfamily ligands Fas Ligand, TL1A, and LIGHT and interferes with their respective interactions with Fas, DR3, or HVEM and Lymphotoxin beta R. It blocks apoptosis triggered through either Fas Ligand, TL1A, or LIGHT. DcR3 is up-regulated in a variety of cancers and enhances tumor cell immune evasion. It also promotes immune suppression by inducing dendritic cell apoptosis, inhibiting NK cell and CD8+ T cell activity, and inhibiting the production of inflammatory cytokines during viral infection or autoimmunity. In humans, proteolytic removal of the C-terminal 53 amino acids generates a shortened DcR3 that retains the ability to block LIGHT but not Fas Ligand induced apoptosis. DcR3 can also induce osteoclast formation from monocytes.

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Predicted N Terminal	Ala30
Form	Lyophilized from a 0.2 µm filtered solution in MES and NaCl.
Bio-activity	Measured by its ability to inhibit Fas Ligand-induced apoptosis of Jurkat human acute T cell leukemia cells. Cheng, J. et al. (1994) Science 263:1759. The ED50 for this effect is typically 15-75 ng/mL in the presence of 20 ng/mL Recombinant Human Fas Ligand/TNFSF6.
Molecular Mass	Predicted Molecular Mass: 56 kDa SDS-PAGE: 58-67 kDa, reducing conditions
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 500 µg/mL in water.

GENE INFORMATION

Gene Name	TNFRSF6B TNF receptor superfamily member 6b [<i>Macaca fascicularis</i>]
Official Symbol	TNFRSF6B
Synonyms	TNFRSF6B; TNF receptor superfamily member 6b

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