

Active Recombinant Human TNFRSF13C, Fc Chimera

Cat. No. TNFRSF13C-491H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human tumor necrosis factor receptor encoding the signal peptide of human GH receptor was fused to the extracellular domain of human tumor necrosis factor receptor (aa 2-73), which was in turn fused to the Fc region of human IgG1 (aa 93-330). The chimeric protein was expressed in modified <i>human 293 cells</i> .
Species	Human
Source	HEK293
Protein Length	2-73 a.a.
Description	BAFF receptor (B cell activating factor receptor) is a 19 kD type III membrane protein that is a member of the TNF receptor superfamily. The primary responsibility for BAFF R is the mediating role of BAFF in B-cell survival and maturation. BAFF R is one of three different receptors (also includes TACI and BCMA) specific for BAFF and plays a predominant role in BAFF induced B-cell development and survival.
Amino Acid Sequence	SLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPAGASSPAPRTALQPQES VGAGAGEAALPGSSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKD TLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSV LTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQ VSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQ QGNVFSCSVMHEALHNHYTQKSLSLSPGK.
Molecular Mass	Tumor necrosis factor receptor Chimera migrates as two bands at 35 and 38-46 kDa

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on SDS-PAGE due to post-translational modifications, in particular glycosylation. This compares with unmodified tumor necrosis factor receptor that has a predicted molecular mass of 34 kDa.

pl	Due to post-translational modifications Symansis tumor necrosis factor receptor Chimera separates into a number of glycoforms with a pl between 5 and 9.5 on 2D PAGE. This compares with the unmodified BAFF R - Fc Chimera that has a predicted pl of 8.4.
% Carbohydrate	Purified BAFF R - Fc Chimera consists of approximately 0-25% carbohydrate by weight.
Glycosylation	BAFF R – Fc Chimera is N- and O-glycosylated.
Purity	>95%, as determined by SDS-PAGE and visualized by Coomassie Brilliant Blue.
Formulation	When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
Reconstitution	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.
Storage	Lyophilized products should be stored at 2 to 8°C. Following reconstitution short-term storage at 4°C is recommended, with longer-term storage in aliquots at -18 to -20°C. Repeated freeze thawing is not recommended.
Activity	The ED ₅₀ of BAFF R – Fc Chimera is typically 0.02-0.08 µg/ml as measured by its ability to neutralize BAFF-mediated proliferation of the RPMI 8226 cell line.

GENE INFORMATION

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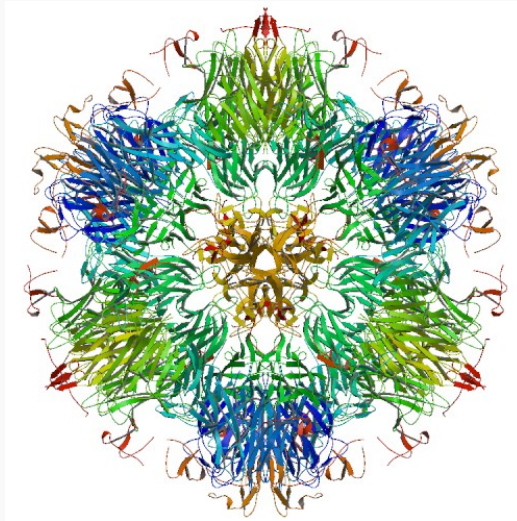
Gene Name	TNFRSF13C tumor necrosis factor receptor superfamily, member 13C [Homo sapiens]
Synonyms	TNFRSF13C; tumor necrosis factor receptor superfamily, member 13C; BAFFR; CD268; BAFF-R; MGC138235; OTTHUMP000000 28746; B cell-activating factor receptor; BLyS receptor 3; BAFF receptor
Gene ID	115650
mRNA Refseq	NM_052945
Protein Refseq	NP_443177
UniProt ID	Q96RJ3
Chromosome Location	22q13.1-q13.3
MIM	606269
Pathway	Cytokine-cytokine receptor interaction; Primary immunodeficiency
Function	receptor activity

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