

Recombinant Mouse CD30 Ligand/TNFSF8

Catalog Number: 732-CL/CF

Source	Mouse myeloma cell line, NS0-derived mouse CD30 Ligand/TNFSF8 protein				
	МННННННН	GGGSGGGSGGGS	IEGR	Mouse CD30 Ligand (Gln68-Asp239) Accession # P32972	
	N-terminus C-te				
N-terminal Sequence Analysis	Met				
Predicted Molecular Mass	22 kDa				

SPECIFICATIONS		
SDS-PAGE	30-45 kDa, reducing conditions	
Activity	Measured by its ability to stimulate IL-6 secretion by HDLM human Hodgkin's lymphoma cells. Duckett, C.S. <i>et al.</i> (1997) Mol. Cell. Biol. 17 :1535. The ED ₅₀ for this effect is 5-30 ng/mL in the presence of 10 μg/mL of a cross-linking antibody, Mouse Anti-polyHistidine Monoclonal Antibod (Catalog # MAB050).	
Endotoxin Level	<0.10 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.	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.	

PREPARATION AND STORAGE		
Reconstitution		
Shipping		
Stability & Storage	 Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution. 	

BACKGROUND

CD30 Ligand (CD30L)/TNFSF8 is a type II membrane protein belonging to the TNF superfamily. CD30L is expressed on the cell surface of activated T cells, B cells, and monocytes. The protein is also constitutively expressed on granulocytes and medullary thymic epithelial cells. The specific receptor for CD30L is CD30/TNFRSF8, a type I transmembrane glycoprotein belonging to the TNF receptor superfamily. CD30 was originally identified as a cell surface antigen of Hodgkin's and Reed-Sternberg cells using the monoclonal antibody Ki-1. CD30 is also expressed on different non-Hodgkin's lymphomas, virus-infected T and B cells,

and on normal T and B cells after activation. Among T cells, CD30 is preferentially expressed on a subset of T cells producing Th2-type cytokines and on CD4⁺/CD8⁺ thymocytes that coexpress CD45RO and IL-4 receptor. CD30 ligation by CD30L mediates pleiotropic effects including cell proliferation, activation, differentiation and cell death by apoptosis. CD30 can act as a costimulatory molecule in thymic negative selection and may also play a critical role in the pathophysiology of Hodgkin's disease and other CD30⁺ lymphomas.

References:

- 1. Brunangelo, F. et al. (1995) Blood 85:1.
- 2. Duckett, C.S. et al. (1997) Mol. Cell. Biol.17:1535.
- 3. Chiarle, R. et al. (1999) J. Immunol. 163:194.

Rev. 3/25/2019 Page 1 of 1



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