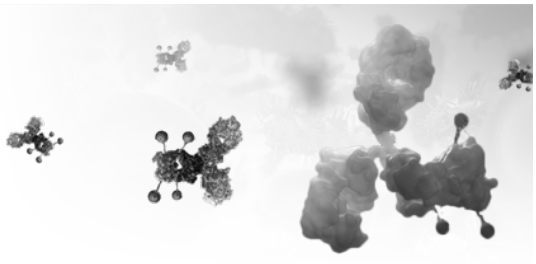

Human Lymphotoxin Alpha (DAG358)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	LymphotoxinAlpha (TNF Superfamily, Member 1) (LTA) is a potent lymphoid factor thatexerts cytotoxic effects on a wide range of tumor cells and certain othertarget cells. Human LTA which was expressed in E. coli is a 19kDa proteincontaining 171 amino acid
Antigen Description	Tumornecrosis factors (or the TNF-family) refers to a group of cytokines familythat can cause cell death (apoptosis). The first two members of the family tobe identified were: Tumor necrosis factor-alpha (TNF-α) is the best-knownmember of this class, and sometimes referred to when the term tumornecrosis factor is used. TNF-α is a monocyte-derived cytotoxin that hasbeen implicated in tumour regression, septic shock and cachexia. The proteinis synthesised as a prohormone with an unusually long and atypical signalsequence, which is absent from the mature secreted cytokine. A short hydrophobic stretch of amino acids serves to anchor the prohormone in lipidbilayers. Both the mature protein and a partially-processed form of thehormone can be secreted after cleavage of the propeptide. Tumor necrosisfactor-beta (TNF-β), also known as lymphotoxin is a cytokine that isinhibited by interleukin 10.
Species	Human
Conjugate	Unconjugated
Applications	Human TNF-betais fully biologically active when compared to standards. The ED50 asdetermined by the cytolysis of L929 cells in the presence of actinomycin D is and lt; 0.05ng/ml, corresponding to specific activity of and gt; 2x107units/mg. Each laboratory
Format	Purified, Lyophilized. To obtain a 1μg/μL solution of TNF-beta in PBS, add 1ul of waterper ug protein. This solution can be diluted into othe buffered solutions orstored at –20°C for future use.
Concentration	Not applicable.
Buffer	Lyophilized from10mM NaP, pH 7.0 with 50mM NaCl
Preservative	None

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Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	Cytokine that in its homotrimeric form binds to TNFRSF1A/TNFR1, TNFRSF1B/TNFBR and TNFRSF14/HVEM. In its heterotrimeric form with LTB binds to TNFRSF3/LTBR. Lymphotoxin is produced by lymphocytes and cytotoxic for a wide range of tumor cells in vitro and in vivo.
Keywords	LTA; lymphotoxin alpha; LT; TNFB; TNFSF1; lymphotoxin-alpha; LT-alpha; TNF-beta; TNF superfamily, member 1; tumor necrosis factor beta; tumor necrosis factor ligand superfamily member 1;

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