



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 that exerts cytotoxic effects on a wide range of tumor cells and certain other target cells. Human LTA which was expressed in E. coli is a 19kDa protein containing 171 amino acid |
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| 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 It; 0.05ng/ml, corresponding to specific activity of and gt; 2x107units/mg. Each laboratory |
| Format | Purified, Lyophilized. To obtain a $1\mu g/\mu L$ solution of TNF-beta in PBS, add 1ul of waterper ug protein. This solution can be diluted into othe buffered solutions orstored at $-20^{\circ}C$ for future use. |
| Concentration | Not applicable. |
| Buffer | Lyophilized from10mM NaP, pH 7.0 with 50mM NaCl |
| Preservative | None |

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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. |
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| 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; |