

Product Datasheet

Recombinant Human TNF alpha Protein (orb527072)

Description

Tumor necrosis factor (TNF, tumor necrosis factor alpha, TNF α , cachexin, or cachectin) is a cell signaling protein (cytokine) involved in systemic inflammation and is one of the cytokines that make up the acute phase reaction. It is produced chiefly by activated macrophages, although it can be produced by many other cell types such as CD4+ lymphocytes, NK cells, neutrophils, mast cells, eosinophils, and neurons. The primary role of TNF is in the regulation of immune cells. TNF, being an endogenous pyrogen, is able to induce fever, apoptotic cell death, cachexia, inflammation and to inhibit tumorigenesis and viral replication and respond to sepsis via IL1 & IL6 producing cells. Dysregulation of TNF production has been implicated in a variety of human diseases including Alzheimer's disease, cancer, major depression, psoriasis and inflammatory bowel disease (IBD). Though controversial, studies of depression and IBD are currently being linked to TNF levels. Recombinant TNF is used as an immunostimulant under the INN tasonermin. TNF can be produced ectopically in the setting of malignancy and parallels parathyroid hormone both in causing secondary hypercalcemia and in the cancers with which excessive production is associated.

Reactivity

Human

Endotoxins

Less than 1 EU/ μ g of TNF alpha as determined by LAL method.

Form/Appearance

Lyophilized

Storage

Lyophilized recombinant human TNF alpha remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rhTNF alpha remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.

Note

For research use only

Protein Sequence

VRSSS RTPSD KPAVAH VVANP QAEGQ LQWLN RRANA LLANG VELRD NQLVV PSEGL
YLIYS QVLFK GQGCP STHVL LTHTI SRIAV SYQTK VNLLS AIKSP CQRET PEGAE
AKPWY EPIYL GGVFQ LEKGD RLSAE INRPD YLDFA ESGQV YFGII AL

Source

E. coli Val77-Leu233

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MW	17.3KD
Uniprot ID	P01375
Expiration Date	6 months from date of receipt.

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