

Product datasheet for TP750117

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

TNF alpha (TNF) (NM 000594) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Human tumor necrosis factor (TNF) mutant, tag free,

expressed in E.Coli, 50 ug

Species: Human **Expression Host:** E. coli

Expression cDNA Clone

MRKRKPVAHV VANPQAEGQL or AA Sequence: **QWLNRRANAL LANGVELRDN**

QLVVPSEGLY LIYSQVLFKG QGCPSTHVLL THTISRIAVS YQTKVNLLSA IKSPCQRETP EGAEAKPWYE PIYLGGVFQL EKGDRLSAEI NRPDYLDFAE

SGQVYFGIIA Q

Tag: Tag Free Predicted MW: 16.7KDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

> 90% as determined by SDS-PAGE and Coomassie blue staining **Purity:**

Buffer: Lyophilized from a solution containing PBS, 8% trehalose

Endotoxin: < 1 EU per 1 µg of the protein by the LAL

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -20°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 000585

Locus ID: 7124 **UniProt ID:** P01375 Cytogenetics: 6p21.33





Synonyms: DIF; TNF-alpha; TNFA; TNFSF2; TNLG1F

Summary: This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor

necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, psoriasis, rheumatoid arthritis ankylosing spondylitis, tuberculosis, autosomal dominant polycystic kidney disease, and cancer. Mutations in this gene affect susceptibility to cerebral malaria, septic shock, and Alzheimer disease. Knockout studies in mice also

cerebral malaria, septic shock, and Alzheimer disease. Knockout studies in mice also suggested the neuroprotective function of this cytokine. [provided by RefSeq, Aug 2020]

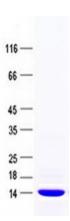
Protein Families: Druggable Genome, Secreted Protein, Transcription Factors, Transmembrane

Protein Pathways: Adipocytokine signaling pathway, Allograft rejection, Alzheimer's disease, Amyotrophic lateral

sclerosis (ALS), Apoptosis, Asthma, Cytokine-cytokine receptor interaction, Dilated cardiomyopathy, Fc epsilon RI signaling pathway, Graft-versus-host disease, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway, Natural killer cell mediated cytotoxicity, NOD-like receptor signaling pathway, RIG-I-like receptor signaling pathway, Systemic lupus erythematosus, T cell receptor signaling pathway, TGF-beta signaling pathway, Toll-like receptor signaling pathway, Type I diabetes mellitus, Type II diabetes

mellitus

Product images:



Purified recombinant protein TNFa-Mutant was analyzed by SDS-PAGE gel and Coomossie Blue Staining.