

32-190048: TNF-alpha (human) (multimeric) (Recombinant)

Application :	Functional Assay
Reactivity :	Human
Alternative Name :	MultimericTNF-alpha [®] ™; ACRP30headless:TNF-alpha; ACRP30headless:TNFSF2; ACRP30headless:Tumor Necrosis Factor-alpha

Description

Source :HEK 293 cells

Specific Binds to human and mouse TNF-R1 and TNF-R2.Tumor necrosis factor (TNF, cachexin or cachectin and formerly known as tumor necrosis factor-alpha) is a cytokine involved in systemic inflammation and is a member of a group of cytokines that stimulate the acute phase reaction. MultimericTNF-alpha[®]™ is a high activity construct in which two trimeric TNF-alpha ligands are artificially linked via the collagen domain of ACRP30. The receptor TNF-R1 is activated by both the membrane-bound and soluble trimeric forms of TNF-alpha, whereas the receptor TNF-R2 only responds to the membrane-bound form of TNF-alpha (TNF-alpha (human) (multimeric) (rec.) (32-190048). Since the MultimericTNF-alpha[®]™ mimics the membrane-bound form (forms oligomers higher than trimer), it is the only TNF-alpha protein that can activate the TNF-R2. For TNF-R1 activation, either "normal" TNF-alpha or MultimericTNF-alpha[®]™ can be used.

Product Info

Amount :	10 µg
Purification :	>=95% (SDS-PAGE)
Content :	Reconstitute with 100µl sterile water.0.1mg/ml after reconstitution. Lyophilized. Contains PBS.
Storage condition :	Short Term Storage +4°C ; Long Term Storage-20°C ;After reconstitution, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles. PBS containing at least 0. 1% BSA should be used for further dilutions. Stable for at least 6 months after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Amino Acid :	The extracellular domain of human TNF-alpha (aa 85-233) is fused at the N-terminus to mouse ACRP30headless [®] (aa 18-111) and a FLAG [®] -tag.

Application Note

MW :~34kDa (SDS-PAGE)

Biological Activity: Activates human and mouse TNF-R1 and TNF-R2. Induces cell death at a concentration range of 0.01-10ng/ml (ED50= 0.05ng/ml or 2 x 10E7 Units/mg; WEHI 164 cells).

Endotoxin Content <0.02EU/µg purified protein (LAL test; Lonza).