GFH35 Recombinant Human TNF Receptor Type 1

Description

Tumor Necrosis Factor Receptor type 1 (TNF Receptor 1) is expressed in most tissues and is activated by soluble and membrane-bound Tumor Necrosis Factor α (TNF-α). TNF Receptor 1 activates NF-kappaB and MAPK pathways to induce inflammation, promote apoptotic cell death, inhibit tumorigenesis, and inhibit viral replication.

Length	162 aa
Molecular Weight	18.3 kDa
Source	E. coli
Accession Number	P19438
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

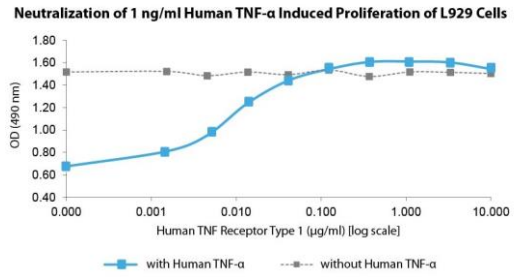
Specifications

Alternative Names	TNFR1, TNF-receptor-1
Biological Activity	Human TNF Receptor Type 1 is fully biologically active when compared to standard. The activity is determined by the neutralization of human TNF-α and it is typically less than 100 ng/ml. This corresponds to an expected specific activity of 1.0 x 10^4 units/mg.
Endotoxin Level	≤1.00 EU/µg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
AA Sequence	MDSVCPQGKY IHPQNNSICC TKCHKGTYLY NDCPGPGQDT DCRECESGSF TASENHLRHC LSCSKCRKEM GQVEISSCTV DRDTVCGCKN QYRHYWSENL FQCFNCSLCL NGTVHLSCQE KQNTVCTCHA GFFLRENECV SCSNCKKSLE CTKLCLPQIE N

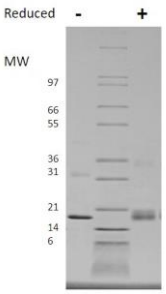
Preparation and Storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Neutralization of human TNF-α induced proliferation of L929 cells in the presence of Actinomycin D. Cell proliferation was measured to calculate the ED50, which is as expected less than 100 ng/ml.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 µg of protein was loaded in each lane. Human TNF Receptor Type 1 has a predicted Mw of 18.3 kDa.