

Human Tumor Necrosis Factor Receptor Inhibitor - Purified

Catalog No.: PA1132X

Quantity: 25 µg

Concentration: 1,0 mg/ml

Background: The protein encoded by this gene is a member of the TNF-receptor superfamily. This protein is one of the major receptors for the tumor necrosis factor-alpha. This receptor can activate NF-kappaB, mediate apoptosis, and function as a regulator of inflammation. Antiapoptotic protein BCL2-associated athanogene 4 (BAG4/SODD) and adaptor proteins TRADD and TRAF2 have been shown to interact with this receptor, and thus play regulatory roles in the signal transduction mediated by the receptor. Germline mutations of the extracellular domains of this receptor were found to be associated with the autosomal dominant periodic fever syndrome. The impaired receptor clearance is thought to be a mechanism of the disease.

Species: Human

Source: NSO cells, Mouse Myeloma Cell Line (NSO)

Format: **State:** Lyophilized purified protein (sterile filtered)
Purity: >95% Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.
Buffer System: PBS

Reconstitution: Restore in sterile 18Mohm-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions

Description: Soluble TNF Receptor Inhibitor Human Recombinant produced in NSO is a disulfide linked homodimer, glycosylated, polypeptide chain having a molecular mass of 48Kda but as a result of the glycosilation, the recombinant protein migrates at 55-60Kda protein in SDS-PAGE. sTNFR1 /Fc chimera (sTNF RI/Fc chimera) was fused to carboxy-terminal 6X histidine-tagged Fc part of human IgG1, via a linker peptide. sTNFR1 is purified by proprietary chromatographic techniques.

AA Sequence:

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Glu-Glu-Val-Ser.

Biological Activity: The activity was measured by its ability to neutralize apoptosis of mouse L929 cells treated with 0.25 ng/mL recombinant human TNF-a. The ED50 for this effect is typically 0.4-1 ng/mL.

Molecular weight: 48 kDa

Storage:

Prior to reconstitution stable at RT for 3 weeks.
 Following reconstitution store the protein undiluted at 2-8°C for one week
 or (in aliquots) at -20°C for longer.
 Avoid repeated freezing and thawing.
 Shelf life: one year from despatch.

Pictures:

