

Recombinant human Soluble TNF Receptor I protein ab9980

Description

Product name	Recombinant human Soluble TNF Receptor I protein
Purity	> 97 % SDS-PAGE. Sterile filtered Greater than 97% pure by HPLC analyses. Endotoxin level is less than 0.1 ng per g (1EU/g).
Expression system	Escherichia coli
Accession	<u>P19438</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MDSVCPQGKY IHPQNNSICC TKCHKGTLY NDCPGPGQDT DCRECESGSF TASENHLRHC LSCSKCRKEM GQVEISSCTV DRDTVCGCRK NQYRHYWSEN LFQCFNCSLC LNGTVHLSCQ EKQNTVCTCH AGFFLRENEC VSCSNCKKSL ECTKLCLPQI EN
Predicted molecular weight	18 kDa

Specifications

Our **Abpromise guarantee** covers the use of **ab9980** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies SDS-PAGE
Form	Lyophilized
Additional notes	The biological activity of this product was determined by its inhibitory effect of the TNF-alpha mediated cytotoxicity in murine L929 cells. The ED50 for this effect, in the presence of 0.25 ng/ml of recombinant human TNF-alpha is 0.05 µg/ml.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Please reconstitute this product in 200ul water.

General Info

Relevance	TNF RI (CD120a) is a 55 kDa transmembrane glycoprotein that is expressed by virtually all nucleated mammalian cells. Among the numerous cells known to express TNF RI are hepatocytes, monocytes and neutrophils, cardiac muscle cells, endothelial cells, and CD34+ hematopoietic progenitors. Both TNF alpha and TNF beta bind to TNF RI. Soluble TNF alpha binds with a Kda in the range of 20-60 pM, while TNF beta binds with a Kda equal to 650 pM. TNF RI relative to TNF RII seems to be the more physiologically relevant receptor, whereas TNF R2 appears to play a direct role in only a limited number of TNF responses. Soluble TNF RI, which blocks TNF alpha activity, has been identified in both urine and blood (1-3 ng/mL). Serum levels of sTNF receptors increase dramatically in certain pathological situations.
Cellular localization	Cytoplasmic

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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