sTNF Receptor Type II Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Soluble Tumor Necrosis Factor type II, TNFRSF1B, TNFR75, p75, CD120b, TNFR80, p80

Cat. No.:

RBG10328005	(5 µg)
RBG10328020	(20 µg)
RBG10328100	(100 µg)

Description

TNFRII is a member of the TNFR family of transmembrane proteins, and is expressed in immune cells and certain endothelial cells. It is a high affinity receptor for TNF-alpha, but manifests a lower affinity to TNF-beta. Signaling through this receptor regulates various biological processes, including cell proliferation, differentiation, apoptosis, lipid metabolism, coagulation, and neurotransmission. Soluble TNFRII is capable of inhibiting TNF-alpha-induced activities by acting as a decoy receptor. The human TNFRII gene encodes for a 461 amino acid type I transmembrane protein, which contains a 22 amino acid signal sequence, a 235 amino acid extracellular domain, a 30 amino acid transmembrane domain, and a 174 amino acid cytoplasmic domain. Recombinant Human sTNF Receptor Type II is an 18.9 kDa protein (174 amino acid residues) comprising the cysteine-rich, ligand binding portion of the extracellular domain of the TNFRII protein.

Research topic

Immune Response, Infection and Inflammation, Neural tissue markers

Amino Acid Sequence

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MAPEPGSTCR LREYYDQTAQ MCCSKCSPGQ HAKVFCTKTS DTVCDSCEDS TYTQLWNWVP ECLSCGSRCS SDQVETQACT
REQNRICTCR PGWYCALSKQ EGCRLCAPLR KCRPGFGVAR PGTETSDVVC KPCAPGTFSN TTSSTDICRP HQICNVVAIP
GNASMDAVCT STSP
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Source

E. coli

Purity

98%

Biological Activity

Determined by its inhibitory effect of the TNF-alpha mediated cytotoxicity in murine L-929 cells. The ED_{50} for this effect in the presence of 0.25 ng/ml of recombinant human TNF-alpha, is 0.125 µg/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

HEADQUARTERS: BioVendor Laboratorní medicína, a.s.	Karasek 1767/1	621 00 Brno CZECH REPUBLIC	Phone: +420-549-124-185 Fax: +420-549-211-460	E-mail: Web:	info@biovendor.com sales@biovendor.com www.biovendor.com
AUSTRIA: BioVendor GesmbH	Nußdorfer Straße 20/10	1090 Vienna AUSTRIA	Phone: +43-1-89090-25 Fax: +43-1-89090-2515	E-mail:	infoAustria@biovendor.com
GERMANY, SWITZERLAND: BioVendor GmbH	Otto-Hahn-Straße 16	34123 Kassel GERMANY	Phone: +49-6221-433-9100 Fax: +49-6221-433-9111	E-mail:	infoEU@biovendor.com
USA, CANADA AND MEXICO: BioVendor LLC	128 Bingham Rd. Suite 1300	Asheville, NC 28806 USA	Phone: +1-828-575-9250 +1-800-404-7807 Fax: +1-828-575-9251	E-mail:	infoUSA@biovendor.com