

Active Recombinant Human TNFRSF1B Protein

Cat. No. TNFRSF1B-01H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human TNFRSF1B protein without tag was expressed in E. coli. The TNFR2 is purified by proprietary chromatographic techniques.

Species Human

Source E.coli

ProteinLength 24-206 a.a.

Description The protein encoded by this gene is a member of the TNF-receptor superfamily. This protein and TNF-receptor 1 form a heterocomplex that mediates the recruitment of two anti-apoptotic proteins, c-IAP1 and c-IAP2, which possess E3 ubiquitin ligase activity. The function of IAPs in TNF-receptor signalling is unknown, however, c-IAP1 is thought to potentiate TNF-induced apoptosis by the ubiquitination and degradation of TNF-receptor-associated factor 2, which mediates anti-apoptotic signals. Knockout studies in mice also suggest a role of this protein in protecting neurons from apoptosis by stimulating antioxidative pathways.

Form Sterile Filtered White lyophilized (freeze-dried) powder.

Bio-activity The ED50 as determined by its ability to inhibit the TNF-a mediated cytotoxicity in the L-929 cells is less than 0.2 µg/mL, corresponding to a specific activity of > 5000 IU/mg in the presence of 0.25 ng/mL of rHuTNF-a.

Molecular Mass 20 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MPAQVAFTPYAPEPGSTCRLREYYDQTAQMCCSKCSPGQHAKVFCTKTSDTVCDSCEDSTYTQLWNWVPECLSCGSRCSDDQVETQACTREQNRICRCRPGWYCALSKQEGCRLCAPLRKCRPGFGVARPGTETSDVVCKPCAPGTFSNTTSSSTDICRPHQICNVVAIPGNASMDAVCTSTSTPT.
Purity	Greater than 97.0% as determined by SDS-PAGE.
Stability	Lyophilized TNFR2 although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution TNFR2 should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH7.4.
Reconstitution	It is recommended to reconstitute the lyophilized TNFR2 in sterile 18M-cm H2O not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.
Shipping	Shipped at Room temp.

GENE INFORMATION

Gene Name	TNFRSF1B TNF receptor superfamily member 1B [Homo sapiens (human)]
Official Symbol	TNFRSF1B TNF receptor superfamily member 1B [Homo sapiens (human)]
Synonyms	TNFRSF1B; TNF receptor superfamily member 1B; p75; TBPII; TNFBR; TNFR2; CD120b; TNFR1B; TNFR80; TNF-R75; p75TNFR; TNF-R-II; tumor necrosis factor receptor superfamily member 1B; TNF-R2; TNF-RII; p75 TNF receptor; p80 TNF-alpha receptor; tumor necrosis factor beta receptor; tumor necrosis factor binding protein 2; tumor necrosis factor receptor 2; tumor necrosis factor receptor type II

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Gene ID	7133
mRNA Refseq	NM_001066
Protein Refseq	NP_001057
MIM	191191
UniProt ID	P20333

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