Datasheet for ABIN6700712

TNFRSF1A Protein

2 Images

Go to Product page

Overview

Quantity:	5 µg
Target:	TNFRSF1A
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Tumor Necrosis Factor Receptor Type 1 Recombinant Protein
Purification:	Tumor Necrosis Factor Receptor Type 1 purity was determined to be greater than 97% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	97,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by its ability to inhibit the cytolytic effects 0.25 ng/mL TNFα has on mouse L929 cells, in the presence of Actinomycin D, and is typically between 0.045-0.09 ng/mL.

Target Details

Target:	TNFRSF1A
Alternative Name:	TNFRSF1A (TNFRSF1A Products)
Background:	Synonyms: Tumor necrosis factor receptor 1 (TNF-R1), Tumor necrosis factor receptor type 1,

Target Details

	TNFAR, TNFR55, p55, p60, CD120a Background: TNF Receptor 1 (TNFR1) is expressed in most tissues and is activated by soluble and membrane-bound TNFα. TNFR1 is known to activate NF-kB and MAPK pathways to induce inflammation, promote apoptotic cell death, inhibit tumorigenesis and inhibit viral replication. The soluble form of recombinant human TNFR1 is a non-glycosylated protein, containing 162 amino acids, with a molecular weight of 18.3 kDa.
UniProt:	P19438
Pathways:	NF-kappaB Signaling, Apoptosis, Caspase Cascade in Apoptosis, Hepatitis C, Ubiquitin Proteasome Pathway

Application Details

Application Notes:	Other: User Optimized Application_Note: Tumor Necrosis Factor Receptor Type 1 Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Tumor Necrosis Factor Receptor Type 1 in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

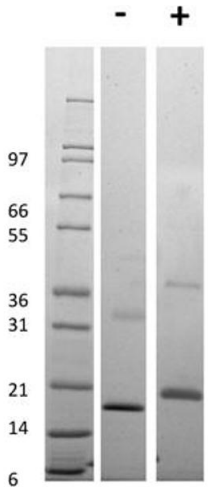
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 5 µL (5-50 µL)
Buffer:	Buffer: 0.01 M Sodium Phosphate, pH 7.5 Stabilizer: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing

Handling

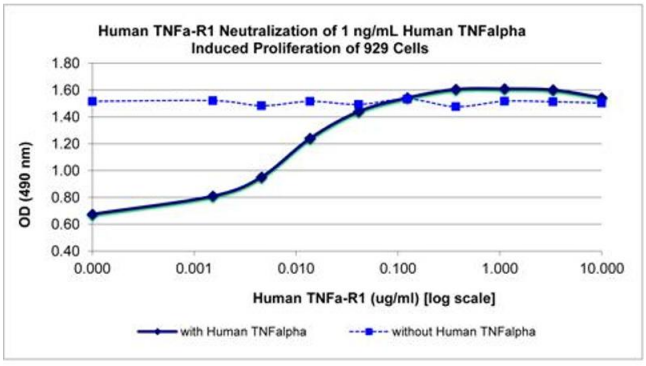
	at room temperature.
Expiry Date:	6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Human Tumor Necrosis Factor Receptor Type 1 Recombinant Protein SDS-PAGE of Human Tumor Necrosis Factor Receptor Type 1 Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Human TNF-Receptor 1 in non-reducing conditions . Lane 3: 1 µg Human TNF-Receptor 1 in reducing conditions (+). Human TNF-Receptor 1 has a predicted MW of 18.3 kDa.



SDS-PAGE

Image 2. SDS-PAGE of Human Tumor Necrosis Factor Receptor Type 1 Recombinant Protein Bioactivity of Human Tumor Necrosis Factor Receptor Type 1 Recombinant Protein. 929 cells were cultured with 1 ng/mL Human TNF-alpha and 1 ug/mL Actinomycin D, plus serial dilutions of Human TNF-Receptor 1 from 0-10 ug/mL. Cell proliferation was measured after 24 hours and the linear portion of the curve was us used to calculate the ED50. The ED50 of Human TNF Receptor 1 is 8-12 ng/mL. This typical expected value for this activity is 9-45 ng/mL.