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Datasheet for ABIN2018408 TNF alpha Protein (AA 84-235)

Publication



Overview

Quantity:	100 µg
Target:	TNF alpha
Protein Characteristics:	AA 84-235
Origin:	Mouse
Source:	Yeast (Pichia pastoris)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50<0.01 ng/mL, measured by cytotoxicity assay using L929 cells, corresponding to a specific activity of >1 x 108 units/mg.
Purity:	> 95 % as analyzed by reducing SDS-PAGE.
Endotoxin Level:	< 1 EU/µg, determined by LAL method.

Target Details

Target:	TNF alpha
Alternative Name:	TNF-alpha (TNF alpha Products)
Background:	Sharing 79 % sequence identity with human Tumor Necrosis Factor-alpha (hTNF- α), mouse
	type II transmembrane protein, TNF- α is further proteolytically processed to a soluble form [2].
	The trimeric active TNF- α [3] then exerts its diverse biological properties including gapoptosis,

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Target Details

	inflammation, autoimmunity and cell proliferation by binding to TNF Receptor 1 and 2 [4].
	Recombinant mouse Tumor Necrosis Factor-alpha (rmTNF- α) produced in P.pastoris is a fully
	biologically active polypeptide chain of 152 amino acids with a molecular mass of 17 kDa
	analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
	Synonyms: TNF-alpha, Tumor necrosis factor ligand superfamily member 2, TNF-a, Cachectin,
	DIF, TNFA, TNFSF2
Molecular Weight:	17kDa, observed by reducing SDS-PAGE.
UniProt:	P06804
Pathways:	NF-kappaB Signaling, Apoptosis, Caspase Cascade in Apoptosis, TLR Signaling, Cellular
	Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity, Positive
	Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune
	Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity, PositiveRegulation of Immune Effector Process, Production of Molecular Mediator of ImmuneResponse, Positive Regulation of Endopeptidase Activity, Hepatitis C, Protein targeting to
	 Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Positive Regulation of Endopeptidase Activity, Hepatitis C, Protein targeting to Nucleus, Inflammasome

Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O or PBS at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant mouse Tumor Necrosis Factor-alpha (rmTNF-alpha) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rmTNF-alpha should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Expiry Date:	6 months
Publications	
Product cited in:	Inanir, Copoglu, Kokacya, Dokuyucu, Erbas, Inanir: "Agomelatine Protection in an LPS-Induced
	Psychosis-Relevant Behavior Model." in: Medical science monitor : international medical
	journal of experimental and clinical research, Vol. 21, pp. 3834-9, (2016) (PubMed).

Erbaş, Yılmaz, Taşkıran: "Levetiracetam attenuates rotenone-induced toxicity: A rat model of Parkinson's disease." in: **Environmental toxicology and pharmacology**, Vol. 42, pp. 226-30, (2016) (PubMed).

Erbaş, Akseki, Aktuğ, Taşkıran: "Low-grade chronic inflammation induces behavioral stereotypy in rats." in: **Metabolic brain disease**, (2014) (PubMed).

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