


Mouse TRAIL Protein, His tag (Animal-Free)

Cat #: PRP1168

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Mouse TRAIL Protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1168	LOT	Lot Number: Refer to product label
	Purity: > 98 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: E.coli
	Shipping: The product is shipped at ambient temperature.		

Background: Tumor necrosis factor-related apoptosis-inducing ligand (TRAIL), also known as CD253 or TNFSF10, is produced and secreted by most normal tissue cells. TRAIL binds to the death receptors DR4 (TRAIL-R1) and DR5 (TRAIL-R2). The process of apoptosis is dependent on caspase-8. Caspase-8 activates downstream caspases, including procaspase-3, 6, and 7, which activate specific kinases. TRAIL also binds to the receptor DcR1, which does not contain a cytoplasmic domain, and to the receptor DcR2, which contains a truncated death domain. DcR1 acts as a TRAIL neutralizing receptor. The cytoplasmic region of DcR2 is functional and activates NF-κB. Thus, in cells expressing DcR2, TRAIL binding activates NF-κB, allowing transcription of genes that antagonize death signaling pathways and / or promote inflammation.

Sequence: Amino acid sequence derived from Mouse TRAIL (Met118-Asn291) (P50592) was expressed with 6×His tag and a Met at the C-terminus.

Protein length: The recombinant Mouse TRAIL Protein consists of 174 amino acids and predicts a molecular mass of 21.0 kDa.

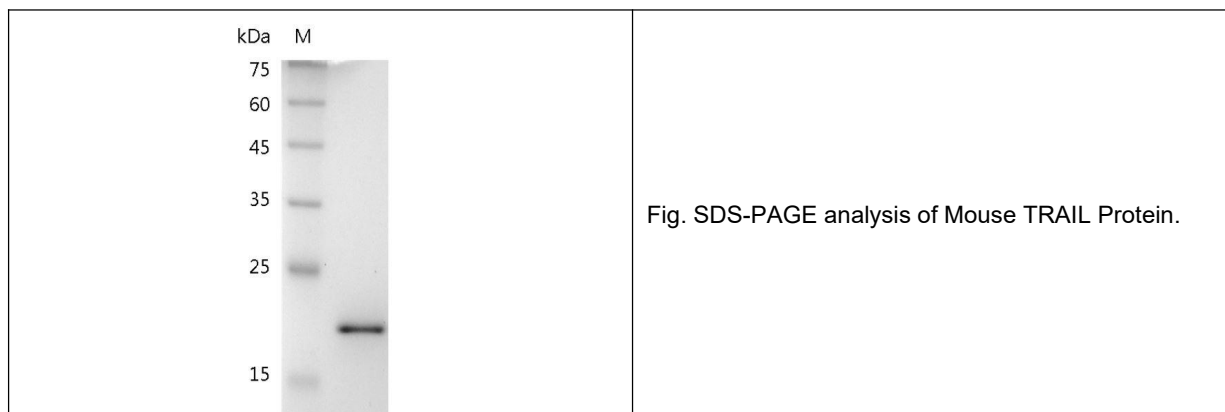
Biological Activity: Measured by its ability to induce cytotoxicity in L929 cells in the presence of actinomycin D. The ED₅₀ for this effect is <1 ng/mL.

Endotoxin: <0.1 EU per 1 µg of the protein by the LAL method.

Formulation: Lyophilized from sterile PBS, pH 7.4.

Storage Instructions: Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA, 10% FBS or 0.1% BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant protein to a concentration of 0.1-1 mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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