TECHNICAL DATA SHEET

Recombinant Mouse TRAIL/Apo2 Ligand (Carrier-Free)

Catalog Number: 21-9186

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Mouse TRAIL/Apo2 Ligand (Carrier-Free)

DESCRIPTION

TRAIL is a cytotoxic protein, which activates rapid apoptosis in tumor cells, but not in normal cells. TRAIL-induced apoptosis is achieved through binding to two death-signaling receptors, DR4 and DR5.

MOLECULAR MASS

Recombinant Mouse TRAIL is a 174 amino acid polypeptide (20.0 kDa), consisting of the TNF-homologous portion of the extracellular domain of the full length TRAIL protein.

AMINO ACID SEQUENCE

MRGGRPQKVA AHITGITRRS NSALIPISKD GKTLGQKIES WESSRKGHSF LNHVLFRNGE LVIEQEGLYY IYSQTYFRFQ EAEDASKMVS KDKVRTKQLV QYIYKYTSYP DPIVLMKSAR NSCWSRDAEY GLYSIYQGGL FELKKNDRIF VSVTNEHLMD LDQEASFFGA FLIN

SOURCE	APPLICATIONS	PURITY	STORAGE
E. coli	Bioassay	95 %	-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

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

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

Human, Mouse

BIOACTIVITY

Assay#1:Determined by the dose-dependent stimulation of MIP-2 production by mouse spleen cells using a concentration range of 10-100 ng/ml. Assay#2: Measured by its ability to induce apoptosis in LN-18 cells (human glioblastoma cells). The expected ED50 for this effect is 40.0-60.0 ng/ml.

RESEARCH AREAS

TNF Superfamily, Apoptosis, Cancer

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Park, J. Tumor suppressor ras association domain family 5 (RASSF5/NORE1) mediates death receptor ligand-induced apoptosis. 2010. The Journal of Biological Chemistry; 285(45):35029-38. Höfig, I. Efficient RNA interference in patients' acute lymphoblastic leukemia cells amplified as xenografts in mice. 2012. Cell Communication & Signaling; 10(1):8.