

TECHNICAL DATA SHEET

Recombinant Human sAPO-1/Fas (Carrier-free)

Catalog Number: 21-7083

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human sAPO-1/Fas (Carrier-free)

DESCRIPTION

Fas (APO-1, CD95, TNFRSF6) is a member of the TNF receptor superfamily and through alternative splicing, exists in multiple isoforms including a soluble form. Binding of Fas to its receptor, Fas ligand (FasL), triggers apoptosis through the recruitment of FADD and activation of the caspase cascade. sFas is capable of inhibiting FasL-induced apoptosis by acting as a decoy receptor that serves as a sink for FasL. Fas expression has been detected in a variety of cell types including activated T and B cells, fibroblasts, dendritic cells, thymocytes, macrophages, hepatocytes, cardiomyocytes and malignant human lymphoid cell lines.

MOLECULAR MASS

Recombinant human soluble Fas is a 157 amino acid polypeptide (17.6 kDa) corresponding to the TNFR-homologous cysteine-rich extracellular Fas domain.

AMINO ACID SEQUENCE

MRLSSKSVNA QVTDINSKGL ELRKT VTTVE TQNLEGLHHD GQFCHKPCPP GERKARDCTV NGDEPDCVPC QEGKEYTDKA HFSSKRRRCR LCDEGHGLEV EINCTRTQNT KCRCKPNFFC NSTVCEHCDP CTKEHGIK ECTLTSNTKC KEEGSR

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

ENDOTOXIN LEVEL

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

AUTHENTICITY

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

CROSS REACTIVITY

BIOACTIVITY

The ED₅₀ was determined by its ability to inhibit the cytotoxicity of Jurkat cells is between 10-15 μg/ml in the presence of 2 ng/ml of hFasL.

RESEARCH AREAS

AIDS/HIV; Receptors; TNF Superfamily

RECONSTITUTION

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

REFERENCES

Papoff G, Cascino I, Eramo A, Starace G, Lynch DH and Ruberti G. 1996. J Immunol. 156(12): 4622-4630. Thorburn A. 2004. Cell Signal. 16(2): 139-144. Strasser A, Jost PJ and Nagata S. 2009. Immunity. 30(2): 180-192. Bouillet P and O'Reilly LA. 2009. Nat Rev Immunol. 9(7): 514-519.

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