

TECHNICAL DATA SHEET

Recombinant Human APO-SAA-1 (Carrier-Free)

Catalog Number: 21-9166

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human APO-SAA-1 (Carrier-Free)

DESCRIPTION

Serum amyloid A proteins (SAA) represents a family of apolipoproteins that circulates in association with high-density lipoproteins (HDL). The level of Apo-SAA, normally 1-5 ug/ml in plasma, increases 500-1000 fold within 24 hours of an inflammatory stimulus and, under these conditions, is the most abundant HDL apolipoprotein. The human SAA gene codes for a 122 amino acid nonglycosylated polypeptide, which contains an 18 amino acid N-terminal sequence.

MOLECULAR MASS

Recombinant Human Apo-SAA1 is an 11.7 kDa protein containing 105 amino acid residues.

AMINO ACID SEQUENCE

MRSFFSFLGE AFDGARDMWR AYSDMREANY IGSDKYFHAR GNYDAAKRGV GGVWAAEAI S DARENIQRFF GHGAEDSLAD QAANEWGRSG
 KDPNHFRPAG LPEKY

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-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

Determined by its ability to chemoattract human monocytes using a concentration range of 10.0-100.0 ng/ml.

RESEARCH AREAS

Angiogenesis/Cardiovascular

RECONSTITUTION

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

REFERENCES

Rajamäki, K. Extracellular Acidosis Is a Novel Danger Signal Alerting Innate Immunity via the NLRP3 Inflammasome. 2013. The Journal of Immunology; 288 (19):13410-9. Anderberg, R.J. Serum amyloid A and inflammation in diabetic kidney disease and podocytes. 2015. Laboratory Investigation; 95(3):250-62.

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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