

TECHNICAL DATA SHEET

Recombinant Human APO-SAA (Carrier-Free)

Catalog Number: 21-9145

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

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Recombinant Human APO-SAA (Carrier-Free)

DESCRIPTION

Human Apo-SAA is a 104 amino acid polypeptide that circulates primarily in association with high-density lipoproteins (HDL). Recombinant Apo-SAA is a consensus SAA molecule corresponding to human Apo-SAA1alpha, except for the presence of an N-terminal methionine, the substitution of asparagine for aspartic acid at position 60, and arginine for histidine at position 71 (the latter two substituted residues are present in Apo-SAA2beta).

MOLECULAR MASS

The calculated molecular weight of Recombinant Human Apo-SAA is 11.7 kDa.

AMINO ACID SEQUENCE

MRSFFSFLGE AFDGARDMWR AYSDMREANY IGSDKYFHAR GNYDAAKRGV GGVWAAEAI S NARENIQRFF GRGAEDSLAD 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

Bacteria, Hamster, Human, Leech, Mouse, Rabbit, Rat

BIOACTIVITY

Tested by its ability to down-regulate lipid biosynthesis in aortic smooth muscle cells. The effective concentration was found to be 4 µM.

RESEARCH AREAS

Angiogenesis/Cardiovascular

RECONSTITUTION

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

REFERENCES

Baranova, I.N. CD36 is a novel serum amyloid A (SAA) receptor mediating SAA binding and SAA-induced signaling in human and rodent cells. 2010. The Journal of Biological Chemistry; 285(11):8492-506. Dufton, N. Anti-inflammatory role of the murine formyl-peptide receptor 2: ligand-specific effects on leukocyte responses and experimental inflammation. 2010. The Journal of Immunology; 184(5):2611-9.

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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