

Recombinant Mouse Apom protein, His-tagged

Cat. No. Apom-519M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Apom(Met20~Lys190) fused with His tag at N-terminal was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Met20~Lys190
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	<p>Apolipoprotein M (APOM) is an approximately 25 kDa variably glycosylated protein that adopts a beta-barrel structure characteristic of lipocalin family proteins. It functions as a component of lipoprotein particles which play essential roles in fatty acid and cholesterol transport and metabolism. Alternative splicing generates a short isoform that lacks the N-terminal 72 amino acids. APOM is produced primarily by hepatocytes but also by renal tubule epithelial cells. The signal peptide is not cleaved and is required for APOM association with lipoprotein particles as well as Megalin mediated reabsorption by the kidney. The activity of recombinant mouse APOM was measured by its ability to bind all-trans retinoic acid. The binding of retinoic acid results in the quenching of Trp fluorescence in APOM. APOM was diluted to 50 ug/ml in 50 mM Tris, 10 mM CaCl₂, 150 mM NaCl, pH 7.5 (assay buffer) and the retinoic acid was diluted to 400, 200, 100, 30, 10, 3, 1 and 0.5 μM in 95% ethanol. Mixing 112.5 μL of 50 μg/mL rmAPOM and 12.5 μL of retinoic acid serial dilutions in</p>

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microtubes and a blank containing 112.5 μ L of 50 μ g/mL rmAPOM and 12.5 μ L of 95% ethanol, then incubate at room temperature for 30 minutes. Loading 100 μ L of the reaction mixtures and blank and read at excitation and emission wavelengths of 280 nm and 340 nm (top read), respectively, in endpoint mode. The result was shown in figure 1, the 50% binding concentration (BC50) is $>300 \mu$ M.

Molecular Mass	24.5kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	> 97%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Apom apolipoprotein M [<i>Mus musculus</i>]
Official Symbol	Apom
Synonyms	APOM; apolipoprotein M; apo-M; G3a; NG20; 1190010O19Rik;
Gene ID	55938
mRNA Refseq	NM_018816
Protein Refseq	NP_061286

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