

Recombinant Human Apolipoprotein D, GST-tagged

Cat. No. APOD-1321H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human APOD full length protein expressed in *E.coli* shows a 48 kDa band on SDS-PAGE. The APO-D is purified by proprietary chromatographic techniques.

Species Human

Source E.coli

Description

Apolipoprotein-D is mainly associated with high density lipoproteins in human plasma. Apolipoprotein-D is an atypical apolipoprotein and, based on its primary structure, Apolipoprotein-D is a member of the lipocalin family. Lipocalins adopt a beta-barrel tertiary structure and transport small hydrophobic ligands. Apolipoprotein-D binds cholesterol, progesterone, pregnenolone, bilirubin and arachidonic acid. Apolipoprotein-D is expressed in numerous tissues having high levels of expression in spleen, testes and brain. Apolipoprotein-D is present at high concentrations in the cyst fluid of women with gross cystic disease of the breast, a condition associated with increased risk of breast cancer. Apolipoprotein-D accumulates in regenerating peripheral nerves and in the cerebrospinal fluid of patients with neurodegenerative conditions, such as Alzheimer's disease. Apolipoprotein-D participates in maintenance and repair within the central and peripheral nervous systems. Apolipoprotein-D is a multi-ligand, multi-functional transporter and transports a ligand from 1 cell to another within an organ, scavenge a ligand within an organ for transport to the blood or could transport a ligand from the circulation to specific cells within a tissue.

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Physical Appearance	Sterile Filtered clear solution.
Formulation	APO-D protein at 100g/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.
Applications	ELISA, Inhibition Assays, Western Blotting.
Stability	Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.
Full Length	Full L.

GENE INFORMATION

Gene Name	APOD apolipoprotein D [Homo sapiens]
Synonyms	Apolipoprotein D; Apo-D; ApoD; APOD
Gene ID	347
mRNA Refseq	NM_001647
Protein Refseq	NP_001638
MIM	107740
UniProt ID	P05090
Chromosome Location	3q26.2-qter

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Function

lipid binding; transporter activity; lipid transporter activity; protein binding; retinoid binding

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