



## Apolipoprotein D, GST Tag, human recombinant (rHuAPO-D-GST)

**Catalog No:** 97266  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Apolipoprotein D, Apo-D, ApoD

### Background

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, scavenges a ligand within an organ for transport to the blood or could transport a ligand from the circulation to specific cells within a tissue.

### Description

APO-D human recombinant full length protein expressed in *E. coli*, shows a 48 kDa band on SDS-PAGE. APO-D is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered clear solution.

### Formulation

APO-D protein at 100 µg/ml in 50 mM Tris-acetate, pH 7.5, 1 mM EDTA and 20% glycerol.

### Stability

Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.

### Applications

ELISA\*WB\*Inhibition Assays

### Usage

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**

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