

## APOD

### Recombinant Human Apolipoprotein D/ApoD with GST Tag

<b>Catalog No.</b>	CRA142A	<b>Quantity:</b>	2 µg
	CRA142B		5 µg
	CRA142C		10 µg

**Alternate Names:** Apolipoprotein D, Apo-D, ApoD.

**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.

**Concentration:** 0.1 mg/ml

**Gene ID:** 347

**Protein Accession No:** NP\_001638

**Source:** *E. coli*

**Molecular Weight:** 48 kDa on SDS PAGE.

**Formulation:** Sterile filtered liquid in 50 mM Tris-Acetate, pH7.5 + 1 mM EDTA + 20% Glycerol

**Purification:** The APO-D is purified by proprietary chromatographic techniques.

**Applications:** ELISA, Western blot, Inhibition Assays. The optimal concentration should be determined by the user for each specific application.

**Storage & Stability:** Stable for 1 year at -20°C to -80°C. **Avoid repeated freeze-thaw cycles.**

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**