Human Proteolipid protein (PLP) ELISA Kit

Catalog No: #EK11769

Package Size: #EK11769-1 48T #EK11769-2 96T

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Description

Product Name	Human Proteolipid protein (PLP) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	HLD1; MMPL; PLP; PLP/DM20; PMD; SPG2; lipophilin|major myelin proteolipid protein
Accession No.	P60201
Uniprot	P60201
GeneID	5354;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.056 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PLP in samples. An antibody specific for PLP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPLP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PLP is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PLP bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Proteolipid protein 1 is a protein associated with Pelizaeus-Merzbacher disease. It is a 4 transmembrane domain protein which binds strongly to other copies of itself on the extracellular side of the membrane. In a myelin sheath, as the layers of myelin wraps come together, PLP will bind itself and tightly hold the cellular membranes together.This gene encodes a transmembrane proteolipid protein that is the predominant myelin protein present in the central nervous system. The encoded protein functions in myelination. This protein may play a role in the compaction, stabilization, and maintenance of myelin sheaths, as well as in oligodendrocyte development and axonal survival. Mutations associated with this gene cause X-linked Pelizaeus-Merzbacher disease and spastic paraplegia type 2.

Note: This product is for in vitro research use only