HUMAN CLPTM1 FULL LENGTH PROTEIN

Cat.#: 11091
Product Name: Human CLPTM1 Full Length Protein
Size : 10 µg; 50 µg and 100 µg
Synonyms: N.A.
Target: CLPTM1
UNIPROT ID: O96005
Description: Human CLPTM1 Full Length Protein-Synthetic Nanodisc
Background: Involved in GABAergic but not glutamatergic transmission. Binds and traps GABAA receptors in the endoplasmic reticulum (ER). Modulates postsynaptic GABAergic transmission, and therefore inhibitory neurotransmission, by reducing the plasma membrane expression of these receptors. Altered GABAergic signaling is one among many causes of cleft palate. Might function as a lipid scramblase, translocating lipids in membranes from one leaflet to the other one.
Species/Host: HEK293
Molecular Weight: The human full length CLPTM1 protein has a MW of 76.1 kDa
Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.
Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Protein Families: Transmembrane
Protein Pathways: N.A.

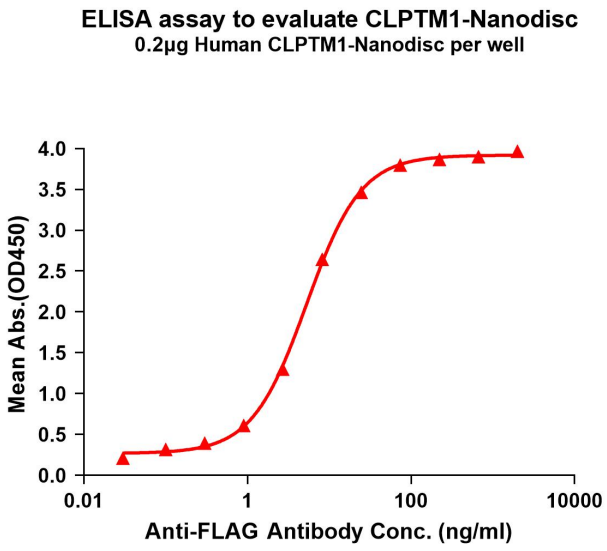

Figure 1. Elisa plates were pre-coated with Flag Tag CLPTM1-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CLPTM1-Nanodisc is 5.286ng/ml.

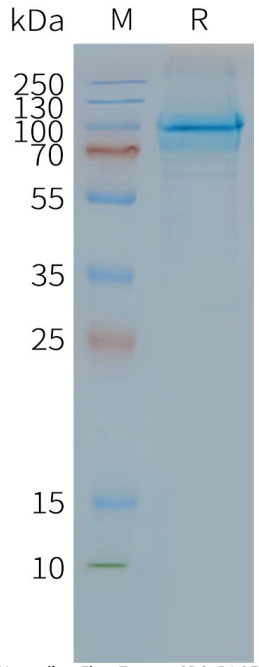

Figure 2. Human CLPTM1-Nanodisc, Flag Tag on SDS-PAGE