Tulp1 Protein, Human (His)

Cat. No.:	HY-P701074
Synonyms:	Tubby-related protein 1; Tubby-like protein 1; TULP1; TUBL1; LCA15; RP14;
Species:	Human
Source:	E. coli
Accession:	O00294-2 (M1-E489)
Gene ID:	/
Molecular Weight:	55.76 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22μm filtered solution of 20mM Tris, 500mM NaCl, 5mM DTT, 10% glycerol, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	The Tulp1 Protein is essential for the normal development of photoreceptor synapses, and it is indispensable for both the normal function and long-term survival of photoreceptor cells. It interacts with cytoskeleton proteins, suggesting a potential role in protein transport within photoreceptor cells. Tulp1 also exhibits lipid-binding capabilities, with an affinity for various phosphatidylinositols and phosphatidic acid in vitro. Additionally, Tulp1 contributes to the stimulation of phagocytosis of apoptotic retinal pigment epithelium (RPE) cells and macrophages, implicating its involvement in cellular clearance mechanisms. Tulp1 forms homodimers and may interact with proteins such as ABCF1, PSIP1, ZEB1, HMGB2, DNM1, F-actin, TUB, and TYRO3, suggesting a diverse range of potential interactions that contribute to its multifaceted role in cellular processes.

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