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## Product Data Sheet

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Product Name: TULP1 Human  
 Cat. No.: GP24917  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tubby like protein 1; TUBL1; RP14; LCA15; tubby-related protein 1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSEPREFVL RPAPQGRTVR CRLTRDKKGM DRGMYPYFL HLDTEKKVFL LAGRKRKRSK TANYLISIDP TNLSRGGNF IGKLRSNLLG NRFTVFDNGQ NPQRGYSTNV ASLRQELAAV IYETNVLGFR GPRRMTVIIP GMSAENERVP IRPRNASDGL LVRWQNKTL SIELHNKPP VWNDDSGSYT LNFQGRVTQA SVKNFQIVHA DDPDYIVLQF GRVAEDAFTL DYRYPLCALQ AFAIALSSFD GKLACE		
Formulation	The TULP1 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 5mM DTT, 2mM EDTA and 50% glycerol.		

### Introduction

Tubby-related protein 1 (TULP1) belongs to the TULP family of 4 proteins (TUB and TULP1, -2, and -3), categorized structurally by the highly conserved C-terminal half of the protein. Tubby-like gene family (TULPs) members are found in plants, vertebrates, and invertebrates and encode proteins of unknown function. TULP proteins share a conserved C-terminal region of roughly 200 amino acid residues. In the retina, TULP1 is observed exclusively in the photoreceptor cells, localizing predominantly in the inner segments and connecting cilium and to a lesser degree in the perinuclear cytoplasm and synaptic termini. TULP1 gene mutations are linked with retinitis pigmentosa.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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TULP1 Human Recombinant produced in E. coli is a single polypeptide chain containing 276 amino acids (290-542) and having a molecular mass of 31.1 kDa. TULP1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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