

## TEM7R/PLXDC2 Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	PLXDC2;TEM7R
Protein Construction:	Glu31-Ala455
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q9DC11
Molecular Weight:	49.01 kDa (predicted). Due to glycosylation, the protein migrates to 75-100 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Plexin domain containing 2 (PLXDC2), a cell surface transmembrane protein receptor for pigment epithelium derived factor, is expressed in many tissues including the eye. Plxdc2 is a type I transmembrane protein with some homology to nidogen and to plexins. It is expressed in a highly discrete and dynamic pattern in the developing nervous system, with prominent expression in various patterning centres.

Reference

Kondkar AA, et al. Plexin domain containing 2 (PLXDC2) gene polymorphism rs7081455 may not influence POAG risk in a Saudi cohort. BMC Res Notes. 2018 Oct 16;11(1):733. doi: 10.1186/s13104-018-3848-x. PMID: 30326957; PMCID: PMC6192173.

Miller-Delaney SF, et al. Plxdc2 is a mitogen for neural progenitors. PLoS One. 2011 Jan 21;6(1):e14565. doi: 10.1371/journal.pone.0014565. PMID: 21283688; PMCID: PMC3024984.

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