

CDH19 Protein, Human, Recombinant (MBP & Flag)

General Information

Synonyms: Cadherin19; Cadherin-19; CDH7L2; cad19

Protein Construction: Gly44-His569

Species: Human

Expression Host: *E. coli*

Accession: Q9H159-1

Molecular Weight: 100.89 kDa (predicted) same as 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 EU/μg 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.

Shipping:

In general, Lyophilized powders are shipping with blue ice.

Protein Background

Cadherins play an important role in tissue homeostasis, as they are responsible for cell-cell adhesion during embryogenesis, tissue morphogenesis, differentiation and carcinogenesis. Cadherins are inseparably connected with catenins, forming cadherin-catenin complexes, which are crucial for cell-to-cell adherence. CDH19 is an evolutionarily conserved cadherin and may be involved in the early development of Schwann cells in the peripheral nervous system.

Reference

Takahashi M, Osumi N. Identification of a novel type II classical cadherin: rat cadherin19 is expressed in the cranial ganglia and Schwann cell precursors during development. *Dev Dyn.* 2005 Jan;232(1):200-8. doi: 10.1002/dvdy.20209. PMID: 15580626.

Kaszak I, et al. Role of Cadherins in Cancer-A Review. *Int J Mol Sci.* 2020 Oct 15;21(20):7624. doi: 10.3390/ijms21207624. PMID: 33076339; PMCID: PMC7589192.

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