

Recombinant Human Ezrin/EZR Protein

Catalog Number:PKSH033684



Note: Centrifuge before opening to ensure complete recovery of vial contents.

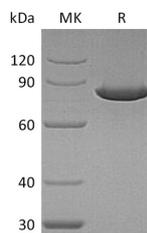
Description

| | |
|------------------------------------|--|
| Synonyms | Ezrin;Cytovillin;Villin-2;p81;EZR;VIL2 |
| Species | Human |
| Expression Host | E.coli |
| Sequence | Met1-Leu586 |
| Accession | P15311 |
| Calculated Molecular Weight | 69.4 kDa |
| Observed molecular weight | 80 kDa |
| Tag | None |

Properties

| | |
|-----------------------|--|
| Purity | > 95 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per µg of the protein as determined by the LAL method. |
| Storage | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles. |
| Shipping | This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C. |
| Formulation | Supplied as a 0.2 µm filtered solution of 10mM HEPES, pH 7.4. |
| Reconstitution | Not Applicable |

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Ezrin is expressed in cerebral cortex, basal ganglia, hippocampus, hypophysis, and optic nerve. The N-terminus of ezrin contains a FERM domain which is further subdivided into three subdomains. The C-terminus contain a ERM domain. As a member of the ERM protein family, Ezrin serves as an intermediate between the plasma membrane and the actin cytoskeleton. It plays a key role in cell surface structure adhesion, migration, and organization. Ezrin probably involved in connections of major cytoskeletal structures to the plasma membrane. The N-terminal FERM domain strongly binds sodium-hydrogen exchanger regulatory factor (NHERF) proteins (involving long-range allostery). The C-terminal binds to actin, phosphatidylinositol bis-phosphate (PIP2) and membrane proteins like CD44 and ICAM-2. In epithelial cells, Ezrin is required for the formation of microvilli and membrane ruffles on the apical pole. Along with PLEKHG6, Ezrin is required for normal macropinocytosis.

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