# Recombinant Human Ezrin/EZR Protein

## Catalog No.: RP02986LQ



### Sequence Information

**Species**
Human

**Gene ID**
7430

**Swiss Prot**
P15311

**Tags**
No tag

**Synonyms**
Ezrin; Cytovillin; Villin-2; p81; EZR; VIL2

### Product Information

**Source**
*E. coli*

**Purification**
≥ 95 % as determined by SDS-PAGE.

**Calculated MW**
69.4 kDa

**Observed MW**
80 kDa

**Endotoxin**
< 1 EU/μg of the protein by LAL method.

**Formulation**
Supplied as a 0.2 μm filtered solution of 10mM HEPES, pH 7.4.

**Reconstitution**

### 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.

### Basic Information

**Description**
Recombinant Human Ezrin/EZR Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Met1-Leu586) of human Ezrin/EZR (Accession #NP_001104547.1) fused with no additional amino acid.

**Activity**

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -70℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

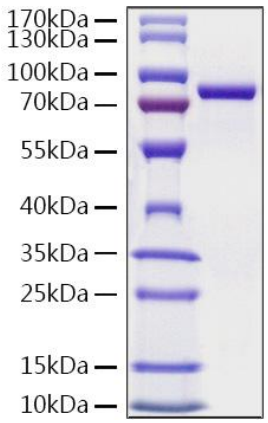
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## Validation Data




Recombinant Human Ezrin/EZR Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.