# Recombinant Human Ezrin/EZR Protein

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Catalog No.: RP02986LQ Recombinant

## **Sequence Information**

Species Gene ID Swiss Prot Human 7430 P15311

Tags

No tag

Synonyms

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

## **Product Information**

**Source** Purification E. coli  $\geq 95 \% as$ 

determined by SDS-

PAGE.

Calculated MW Observed MW

69.4 kDa 80 kDa

**Endotoxin** 

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

#### **Formulation**

Supplied as a 0.2  $\mu$ m 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.

#### **Bio-Activity**

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### **Storage**

Store at -70°C. This product is stable at  $\leq$  -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

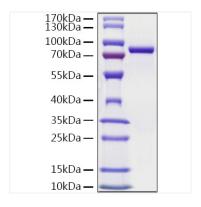
## **Operational Notes**

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

## **Contact**

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## **Validation Data**



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