

## Ezrin Protein, Human, Recombinant (His)

### General Information

Synonyms:	HEL-S-105;CVL;VIL2;CVIL;ezrin
Protein Construction:	A DNA sequence encoding the mature form of human EZR (P15311) (Pro2-Leu586) was expressed with a polyhistide tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	P15311
Molecular Weight:	71.2 kDa (predicted); 82 kDa (reducing conditions)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 60 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS 100 mM Arg 10% glycerol, 0.1% Twen 20, pH 7.5. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**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

VIL2, also known as villin-2, belongs to the ERM protein family. It is expressed in cerebral cortex, basal ganglia, hippocampus, hypophysis, and optic nerve. VIL2 contains 1 FERM domain and may be involved in connections of major cytoskel

Reference

Grnholm M, et al. (1999) Homotypic and heterotypic interaction of the neurofibromatosis 2 tumor suppressor protein merlin and the ERM protein ezrin. J Cell Sci. 112(6):895-904.

Sitaraman, et al. (2002) The adenosine 2b receptor is recruited to the plasma membrane and associates with E3KARP and Ezrin upon agonist stimulation. J Biol Chem. 277(36):33188-95.

Gould KL, et al. (1989) cDNA cloning and sequencing of the protein-tyrosine kinase substrate, ezrin, reveals homology to band 4.EMBO J. 8(13):4133-42.

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