

## Product Information

### Moesin (410-end), GST-tagged, human recombinant, expressed in *E. coli* cells

Catalog Number **SRP5208**  
Storage Temperature  $-70^{\circ}\text{C}$

Synonym: MSN

#### Product Description

Moesin (or membrane-organizing extension spike protein) belongs to ERM family that modulates epithelial integrity by regulating cell-signaling events that affect actin organization and polarity.<sup>1</sup> The effects of Moesin on epithelial cells appear to result from inhibition of Rho signaling. ERM proteins serve a structural role in linkage of the cytoskeleton to the plasma membrane and the rescue of cells lacking Moesin by modulation of Rho signaling indicates that inhibition of Rho activity may be a critical function of Moesin. The negative feedback loop produced by Rho's activation of ERM may be an important mechanism that prevents the excessive migratory and invasive properties characteristic of metastatic cancer cells.<sup>2</sup>

Recombinant human Moesin (410-end) was expressed in *E. coli* cells using an N-terminal GST tag. The gene accession number is NM\_002444. Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~50 kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

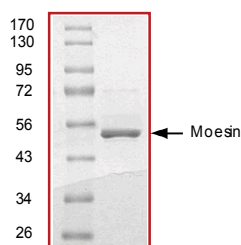
#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### Storage/Stability

The product ships on dry ice and storage at  $-70^{\circ}\text{C}$  is recommended. After opening, aliquot into smaller quantities and store at  $-70^{\circ}\text{C}$ . Avoid repeated handling and multiple freeze/thaw cycles.

**Figure 1.**  
SDS-PAGE Gel of Typical Lot  
70–95% (densitometry)



#### References

1. Speck, O. et al., Moesin functions antagonistically to the Rho pathway to maintain epithelial integrity. *Nature*, **421**(6918), 83-7 (2003).
2. Lankes, W.T. et al., Moesin: a member of the protein 4.1-talin-ezrin family of proteins. *Proc. Natl. Acad. Sci. USA.*, **88**(19), 8297-301 (1991).

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