**Product Name: Recombinant Mouse S100A4 (C-6His)**
**Catalog #: PEM1456**

## Summary

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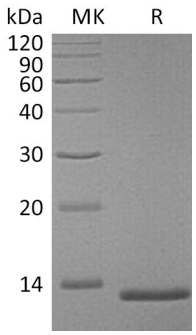
|---|---|
| **Name** | S100A4 |
| **Purity** | Greater than 95% as determined by reducing SDS-PAGE |
| **Endotoxin level** | <1 EU/μg as determined by LAL test. |
| **Construction** | Recombinant Mouse Protein S100-A4 is produced by our E.coli expression system and the target gene encoding Met1-Lys101 is expressed with a 6His tag at the C-terminus. |
| **Accession #** | P07091 |
| **Host** | E.coli |
| **Species** | Mouse |
| **Predicted Molecular Mass** | 12.5 KDa |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below. |
| **Stability&Storage** | Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles. |
| **Reconstitution** | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

## SDS-PAGE image




## Background

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|---|---|
| **Alternative Names** | Protein S100-A4; Metastasin; Metastatic cell protein; PEL98; Placental calcium-binding protein; Protein 18A2; Protein Mts1; S100 calcium-binding protein A4; S100a4; Capl; Mts1 |
| **Background** | S100A4 is a member of the S100 family of proteins. The S100 family is further classified as a member of the EF-hand superfamily of Ca++-binding proteins. These participate in both calcium-dependent and calcium-independent protein-protein interactions. The hallmark of this superfamily is the EF-hand motif that consists of a Ca++-binding site flanked by two α-helices (helix E and helix F) that were originally identified in a right-handed model of carp muscle calcium-binding protein. Mouse S100A4 is 101 amino acids (aa) in length. It contains two EF hand domains, one between aa 12-47, and a second between aa 50-85. S100A4 activity has been associated with cell transformation. It seems likely this is either coincidental, or a consequence, rather than a cause of transformation. |

## Note

For Research Use Only , Not for Diagnostic Use.