



# Recombinant Rat Protein S100-A4 (S100a4)

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|--------------------------|---|
| <b>Product Code</b>      | CSB-EP020632RA-B  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.   |
| <b>Uniprot No.</b>       | P05942  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Rattus norvegicus (Rat)   |
| <b>Purity</b>            | ≥85% (SDS-PAGE)   |
| <b>Sequence</b>          | ARPLEEALD VIVSTFHKYS GNEGDKFKLN KTELKELLTR ELPSFLGRRT<br>DEAAFQKLMN NLDSNRDNEV DFQEYCVFLS CIAMMCNEFF EGCPDKEPRK<br>K  |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | S100a4  |
| <b>Protein Names</b>     | Recommended name: Protein S100-A4 Alternative name(s): Metastasin Nerve growth factor-induced protein 42A P9K Placental calcium-binding protein S100 calcium-binding protein A4   |
| <b>Expression Region</b> | 2-101   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | Full Length of Mature Protein   |
| <b>Target Details</b>    | This protein is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in motility, invasion, and tubulin polymerization. Chromosomal rearrangements and altered expression of this gene have been implicated in tumor metastasis. Multiple alternatively spliced variants, encoding the same protein, have been identified. |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.   |
| <b>Shelf Life</b>        | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.   |