# Recombinant Human S100P/S100E Protein

**Catalog No.** PKSH030800

***Note:*** Centrifuge before opening to ensure complete recovery of vial contents.

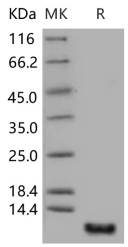
## Description

| | |
|---|---|
| **Synonyms** | Protein S100-P;Protein S100-E;S100 Calcium-Binding Protein P;S100P;S100E;MIG9 |
| **Species** | Human |
| **Expression Host** | E.coli |
| **Sequence** | Met 1-Lys 95 |
| **Accession** | P25815 |
| **Calculated Molecular Weight** | 10.4 kDa |
| **Tag** | None |
| **Bioactivity** | Not validated for activity |

## Properties

| | |
|---|---|
| **Purity** | > 97 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | Please contact us for more information. |
| **Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months. |
| **Shipping** | This product is provided as lyophilized powder which is shipped with ice packs. |
| **Formulation** | Lyophilized from sterile PBS, pH 7.5<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| **Reconstitution** | Please refer to the printed manual for detailed information. |

## Data




> 97 % as determined by reducing SDS-PAGE.

## Background

Protein S100-P; also known as Protein S100-E; S100 calcium-binding protein P; S100P and S100E; is a nucleus and cytoplasm protein which belongs to theS-100 family. S100P / S100E contains twoEF-hand domains. S100P protein



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regulates calcium signal transduction and mediates cytoskeletal interaction; protein phosphorylation and transcriptional control. S100P / S100E overexpression can upregulate androgen receptor expression and thereby promote prostate cancer progression by increasing cell growth. S100P / S100E may directly confer resistance to chemotherapy. S100P / S100E induction may be considered an important step in the initial stage of lung adenocarcinomas; whereas its downregulation in advanced stages seems to be important for tumour progression in which DNA methylation and/or feedback transcription processes play a critical role. S100P / S100E plays a major role in the aggressiveness of pancreatic cancer that is likely mediated by its ability to activate RAGE. Interference with S100P / S100E may provide a novel approach for treatment of pancreatic cancer. S100P / S100E could be considered a potential drug target or a chemosensitization target; and could also serve as a biomarker for aggressive; hormone-refractory and metastatic prostate cancer.


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