

Recombinant Human S100P/S100E Protein (His Tag)

Catalog Number:PKSH033009



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

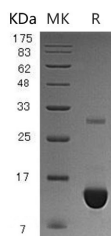
Description

| | |
|------------------------------------|-------------------------------------------------------------------------------|
| Synonyms | Protein S100-P;Protein S100-E;S100 Calcium-Binding Protein P;S100P;S100E;MIG9 |
| Species | Human |
| Expression Host | E.coli |
| Sequence | Met 1-Lys95 |
| Accession | P25815 |
| Calculated Molecular Weight | 12.6 kDa |
| Observed molecular weight | 12 kDa |
| Tag | N-His |

Properties

| | |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity | > 95 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per µg of the protein as determined by the LAL method. |
| Storage | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles. |
| Shipping | This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C. |
| Formulation | Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 1mM DTT, 100mM NaCl, 20% Glycerol, pH 8.0. |
| Reconstitution | Not Applicable |

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Protein S100-P (S100P) belongs to the S100 family of Calcium-Binding Proteins. S100P is 95 amino acids in length and it contains 2 EF-Hand Calcium-Binding Motifs. The EF-Hand Motif binds calcium; which likely alters molecular conformation. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells and it is involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. In addition to binding Ca; S100P also binds Zn and Mg; and may play a role in the etiology of prostate cancer.

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