

## Recombinant Human S100P protein

Cat. No. S100P-3983H    Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human S100P (Met1-Lys95) protein carried no tag and was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Met1-Lys95
<b>Description</b>	<p>S100 calcium-binding protein P (S100P), a member of the S-100 family, is also known as protein S100-P, migration-inducing gene 9 protein (MIG9) and protein S100-E, which contains two EF-hand domains. As for subunit structure, S100P is homodimer and heterodimer with S100A1. S100P may function as calcium sensor and contribute to cellular calcium signaling. In a calcium-dependent manner, S100P functions by interacting with other proteins, such as EZR and PPP5C, and indirectly plays a role in physiological processes like the formation of microvilli in epithelial cells. Furthermore, S100P may stimulate cell proliferation in an autocrine manner via activation of the receptor for activated glycation end products (RAGE).</p>
<b>Predicted N Terminal</b>	Met1
<b>Form</b>	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH 8.0, 10% trehalose.
<b>Molecular Mass</b>	The protein has a calculated MW of 10.4 kDa. The protein migrates as 10.4 kDa

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	under reducing (R) condition (SDS-PAGE).
<b>Endotoxin</b>	Less than 1.0 EU per µg by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Storage</b>	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	S100P
<b>Official Symbol</b>	S100P
<b>Synonyms</b>	S100P; S100 calcium binding protein P; protein S100-P; protein S100-E; migration-inducing gene 9; S100 calcium-binding protein P; MIG9
<b>Gene ID</b>	6286
<b>mRNA Refseq</b>	NM_005980
<b>Protein Refseq</b>	NP_005971

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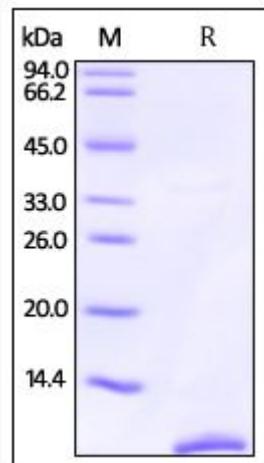
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MIM

600614

UniProt ID

P25815

SDS-PAGE of S100P-  
3983H

Human S100P, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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