

Recombinant Human S100 Calcium Binding Protein P, His-tagged

Cat. No. S100P-2482H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human S100P protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 12.6kDa (115aa).
Species	Human
Source	E.coli
Description	S100P is a Ca ²⁺ binding protein that belongs to 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. S100P is involved in diverse biological functions but the exact role or mechanism of its action is still largely unknown. Upon binding of calcium ions S100P undergoes a conformational change that results in an exposure of a hydrophobic surface which allows the interaction with specific target proteins.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT, 50mM NaCl.
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MTELETAMGM IIDVFSRYSG SEGSTQTLTK GELKVLMEKE LPGFLQSGKD KDAVDKLLKD LDANGDAQVD FSEFIVFVAA ITSACHKYFE KAGLK.
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	S100P S100 calcium binding protein P [Homo sapiens]
Synonyms	S100P; MIG9; S100E; S100 calcium binding protein P; migration-inducing gene 9; S100 calcium-binding protein P; Protein S100-P; OTTHUMP00000115574
Gene ID	6286
mRNA Refseq	NM_005980
Protein Refseq	NP_005971
MIM	600614
UniProt ID	P25815
Chromosome Location	4p16
Function	calcium ion binding; calcium-dependent protein binding; magnesium ion binding

PDB rendering based
on 1j55.

