

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

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