

Recombinant Human S100P, His-tagged

Cat. No. S100P-31372TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length Human S100P , with N terminal His tag, 115 amino acids with tag, MWt 12.6kDa.
Species	Human
Source	E.coli
Description	The protein encoded by this gene is a member of the 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. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21; however, this gene is located at 4p16. This protein, in addition to binding Ca²⁺, also binds Zn²⁺ and Mg²⁺. This protein may play a role in the etiology of prostate cancer.
Conjugation	HIS
Tissue specificity	Up-regulated in various pancreatic ductal adenocarcinomas and pancreatic intraepithelial neoplasias.
Form	Liquid
Purity	>90% by SDS-PAGE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	Preservative: None Constituents: 20% Glycerol, 50mM Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MTELETAMGM IIDVFSRYSG SEGSTQTLTK GELKVLMEKE LPGFLQSGKD KDAVDKLLKD LDANGDAQVDFSEFIVFAA ITSACHKYFE KAGLK
Sequence Similarities	Belongs to the S-100 family. Contains 2 EF-hand domains.

GENE INFORMATION

Gene Name	S100P S100 calcium binding protein P [Homo sapiens]
Official Symbol	S100P
Synonyms	S100P; S100 calcium binding protein P; protein S100-P;
Gene ID	6286
mRNA Refseq	NM_005980
Protein Refseq	NP_005971
MIM	600614
Uniprot ID	P25815
Chromosome	4p16

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Location**Function**

calcium ion binding; calcium-dependent protein binding; magnesium ion binding;
protein binding;

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