

Recombinant Human S100A6, His-tagged

Cat. No. S100A6-916H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human S100A6 encoding the human mature S100A6 (Met ¹ -Gly ⁹⁰) with 6 His tag on the N-Terminus was expressed in <i>E. Coli</i> . This protein was purified by Ni-NTA column. MW = 12 KD.
Species	Human
Source	E.coli
ProteinLength	1-90 a.a.
Description	S100A6 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. This protein may function in stimulation of Ca ²⁺ -dependent insulin release, stimulation of prolactin secretion, and exocytosis. Chromosomal rearrangements and altered expression of this gene have been implicated in melanoma.
Amino Acid Sequence	human mature S100A6 (Met1-Gly90). MACPLDQAIG LLVAIFHKYS GREGDKHTLS KKEIKELIQK ELTIGSKLQD AEIARLMEDL DRNKDQEVNF QEYVTFLGAL ALIYNEALKG 90.
Application	Cell biology.

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Purity	>95% in SDS gel.
Formulation	Lyophilized 100 µg human mature S100A6 in 50 µl of TBS (20 mM Tris, 50mM NaCl,pH8.0). Carry free.
Reconstitution	Add 500 µl deionized water or TBS to the vial to prepare a working stock solution at 200 µg/mL . Allow to set at least 30 minutes at 4° C, mix well.
Storage	Store lyophilized protein at -20 °C or -70 °C. Lyophilized protein is stable for up to 6 months from date of receipt at - 20 °C to -70 °C. Upon reconstitution, this protein can be stored at -20 °C for a few weeks or at -70 °C in a manual defrost freezer for long term storage (six months). Aliquot reconstituted protein to avoid repeated freezing / thawing cycles.

GENE INFORMATION

Gene Name	S100A6 S100 calcium binding protein A6 [Homo sapiens]
Synonyms	S100 calcium binding protein A6; 2A9; PRA; 5B10; CABP; CACY; S100A6; calcyclin; OTTHUMP00000015473; prolactin receptor-associated protein; S100 calcium-binding protein A6 (calcyclin); Calcyclin; OTTHUMP00000015472; Growth factor-inducible protein 2A9; MLN 4; Prolactin receptor-associated protein; S100 calcium-binding protein A6; S100 calcium binding protein A6 (calcyclin)
Gene ID	6277
mRNA Refseq	NM_014624
Protein Refseq	NP_055439
MIM	114110

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UniProt ID	P06703
Chromosome Location	1q21
Function	ion transmembrane transporter activity; protein homodimerization activity; calcium-dependent protein binding; S100 beta binding; calcium ion binding zinc ion binding
PDB rendering based on 1a03.	