

S100A6, His, Human

Cat. No.: Z03087-5

Size: 5.0 ug

Synonyms: Protein S100-A6, Calcyclin, Growth factor-inducible protein 2A9, MLN 4, Prolactin receptor-associated protein, PRA, S100 calcium-binding protein A6, S100A6, CACY, 2A9, 5B10, CABP

Description:

S100 calcium-binding protein A6 (S100A6) is a small calcium binding protein with 2 EF-hand structures and belongs to the S100 family. 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 proteins include at least 25 members which are located as a cluster on chromosome 1q21. S100A6 protein may function in stimulation of Ca²⁺-dependent insulin release, stimulation of prolactin secretion, and exocytosis. Chromosomal rearrangements and altered expression of this gene have been implicated in melanoma. Recombinant S100 calcium-binding protein A6 (S100A6) with His tag produced in *E. coli* is a single chain containing 97 amino acids with molecular mass of 11.1 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:

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00001 MHHHHHMAC PLDQAIGLLV AIFHKYSGRE GDKHTLSKKE  
00041 LKELIQKELT IGSKLQDAEI ARLMEDLDRN KDQEVNFQEY  
00081 VTFLGALALI YNEALKG
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Source: *E. coli*

Species: Human

Molecular Weight: 11.1 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against 50mM Tris-HCl, 100mM NaCl, 0.5mM PMSF, 1mM TCEP, pH8.0.

Reconstitution: Reconstituted in ddH₂O at 200 µg/ml.

Purity: > 95% as analyzed by SDS-PAGE.

Endotoxin Level: < 1 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant S100 calcium-binding protein A6 (S100A6) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, S100A6 should be stable up to 2 week at 4°C or up to 3 months at -20°C.