

S100A4, Human

Cat. No.: Z03086-25

Size: 25.0 ug

Synonyms: Protein S100-A4, S100 calcium-binding protein A4, Metastasin, Protein Mts1, Placental calcium-binding protein, Calvasculin, S100A4, CAPL, MTS1, 42A, 18A2, FSP1, P9KA, PEL98.

Description:

S100 calcium-binding protein A4 (S100A4) is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100A4 promotes metastasis in several experimental animal models, and S100A4 protein expression is associated with differential patient outcome in a number of tumor types. S100A4 is localized in the nucleus, cytoplasm, and extracellular space and possesses a wide range of biological functions such as regulation of angiogenesis, cell survival, motility, and invasion.

Recombinant S100 calcium-binding protein A4 (S100A4) produced in *E. coli* is a single chain containing 101 amino acids with molecular mass of 11.7 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:

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00001 MACPLEKALD VMVSTFHKYS GKEGDKFKLN KSELKELLTR
00041 ELPSFLGKRT DEAAFQKLMS NLDSNRDNEV DFQEYCVFLS
00081 CIAMMCNEFF EGFPDKQPRK K
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Source: *E. coli*

Species: Human

Molecular Weight: 11.7 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against 20 mM Tris-HCl, 100 mM NaCl, pH8.0.

Reconstitution: Reconstituted in ddH₂O at 200 µg/ml.

Purity: > 90% as analyzed by SDS-PAGE.

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

Storage: Lyophilized recombinant S100 calcium-binding protein A4 (S100A4) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, S100A4 should be stable up to 2 week at 4°C or up to 3 months at -20°C.