

DATASHEET
Version 20181206**S100A4, Human****Cat. No.:** Z03086-5**Size:** 5.0 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:

00001 MACPLEKALD VMVSTFHKYS GKEGDKFKLN KSELKELLTR
00041 ELPSFLGKRT DEAAFQKLMS NLDSNRDNEV DFQEYCVFLS
00081 CIAMMCNEFF EGFPDKQPRK K

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.