Recombinant Human S100A4 Protein (Fc Tag)

Catalog Number: PKSH031787



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Protein S100-A4; Calvasculin; Metastasin; Placental calcium-binding protein; Protein

Mts1;S100 calcium-binding protein

A4;S100A4;CAPL;MTS1;18A2;42A;FSP1;P9KA;PEL98

Species Human

Expression Host

Sequence

Met 1-Lys 101

Accession

NP_002952.1

Calculated Molecular Weight

Observed molecular weight

Tag

HEK293 Cells

Met 1-Lys 101

NP_002952.1

38.4 kDa

40 kDa

N-hFc

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per ug of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

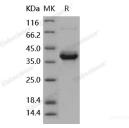
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

S100A4, also known as metastasis-associated protein Mtsl, belongs to the family of small calcium-binding S100 proteins containing two EF-hand calcium-binding motifs. In humans at least 20 S100 family members that are distributed tissue specifically have been identified, and are involved in a number of cellular processes as transducers of calcium signal. S100A4 is a symmetric homodimer, and undergoes a relatively large conformational change upon the typical EF-hand binding calcium, which is necessary for S100A4 to interact with its protein targets and generate biological effects. It can bind the already known targets p53, F-actin, liprin β , myosin heavy chain II, and prevent their phosphorylation and

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multimerization. It has been demonstrated that S100A4 is directly involved in tumor metastasis including cell motility, invasion, apoptosis, angiogenesis and differentiation, and appears to be a metastasis factor and a molecular marker for clinical prognosis. Multiple alternatively spliced variants encoding the same protein have been identified.

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