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Datasheet for ABIN7197760
s100a4 Protein

Overview

Quantity: 100 µg

Target: s100a4 (S100A4)

Origin: Mouse

Source: HEK-293 Cells

Protein Type: Recombinant

Product Details

Purpose: Recombinant Mouse S100A4 Protein

Sequence: Ala2-Lys101

Characteristics: A DNA sequence encoding the mouse S100A4 (P07091)(Ala2-Lys101) was expressed and purified with two additional amino acids (Gly & Pro) at the N-terminus.

Purity: > 85 % as determined by SDS-PAGE

Endotoxin Level: < 1.0 EU per µg of the protein as determined by the LAL method.

Target Details

Target: s100a4 (S100A4)

Alternative Name: S100A4 ([S100A4 Products](#))

Background: S100A4, also known as metastasis-associated protein Mts1, 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.

Target Details

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 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.

Synonym: 18A2,42a,CapI,FSp1,metastasin,Mts1,PeL98,pk9a

Molecular Weight: 11.7 kDa

UniProt: [P07091](#)

Pathways: [S100 Proteins](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: 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.