Recombinant Mouse S100A11

Catalog No: CR31

Description	Recombinant Mouse S100A11 is produced by our E.coli expression system and the target gene encoding Met1- Ile98 is expressed with a 6His at the N-terminus.
Source	Human Cells
Alternative name	Protein S100-A11; Calgizzarin; Endothelial monocyte-activating polypeptide; EMAP; Protein S100- C; S100 calcium-binding protein A11; S100a11; S100c
Accession No.	P50543
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Amino Acid Sequence	MNHKVHHHHHHMMPTETERCIESLIAVFQKYSGKDGNNTQLSKTEFLSFMNTELAAFTKNQKDPGVLD RMMKKLDLNCDG QLDFQEFLNLIGGLAIACHDSFIQTSQKRI
Background	Protein S100-A11(S100A11) is a member of the S-100 family. S100A11 is widely expressed in multi pletissues, and is located in cytoplasm, nucleus, and even cell periphery. S100A11 exists as a non-covalent homodimer with an antiparallel conformation. Ca(2+) binding to S100A11 would trigger conformational changes which would expose the hydrophobic cleft of S100A11 and facilitate its interaction with target proteins. As a dual cell growth mediator, S100A11 acts as either a tumor suppressor or promoter in many different types of tumors and would play respective roles in influencing the proliferatin of the cancer cells. In the nucleus, S100A11 suppresses the growth of keratinocytes through p21 (CIP1/WAF1) activation and induces cell differentiation. S100A11 is also a novel diagnostic marker in breast carcinoma.
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