Recombinant Mouse S100A11 Protein (His Tag)

Catalog Number: PKSM041286



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

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Descri	

Synonyms Protein S100-A11;Calgizzarin;Endothelial monocyte-activating

polypeptide;EMAP;Protein S100-C;S100 calcium-binding protein A11;S100a11;S100c;cal;Emap1;EMAPI;S100A11;S100a14;S100c

SpeciesMouseExpression HostE.coliSequenceMet1-Ile98AccessionP50543Calculated Molecular Weight12.6 kDaObserved molecular weight12 kDaTagN-His

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 a 0.2 μm filtered solution of PBS, pH 7.4.

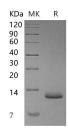
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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

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

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(CIP1/WAF1) activation and induces cell differentiation. S100A11 is also a novel diagnostic marker in breast carcinoma.

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