

Recombinant Mouse S100A4 Protein (His Tag)

Catalog Number: PKSM041285

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

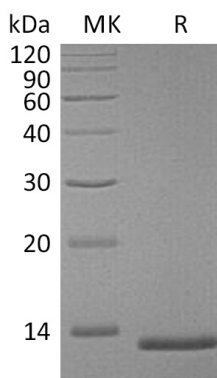
Description

Species	Mouse
Source	E.coli-derived Mouse S100A4 protein Met1-Lys 101, with an C-terminal His
Calculated MW	12.5 kDa
Observed MW	13 kDa
Accession	P07091
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg 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% Tween 80 are added as protectants before lyophilization.
Reconstitution	Please refer to the specific buffer information in the printed manual. Please refer to the printed manual for detailed information.

Data



Background

S100A4 is a member of the S100 family of proteins. The S100 family is further classified as a member of the EF-hand superfamily of Ca⁺⁺-binding proteins. These participate in both calcium-dependent and calcium-independent protein-protein interactions. The hallmark of this superfamily is the EF-hand motif that consists of a Ca⁺⁺-binding site flanked by two α -helices (helix E and helix F) that were originally identified in a right-handed model of carp muscle calcium-binding protein. Mouse S100A4 is 101 amino acids (aa) in length. It contains two EF hand domains, one between aa 12-47, and a second between aa 50-85. S100A4 activity has been associated with cell transformation. It seems likely this is either coincidental, or a consequence, rather than a cause of transformation.

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