

Recombinant Human S100A16/S100F Protein

Catalog Number:PKSH033549



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

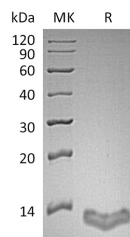
Description

Synonyms	SLAM Family Member 6;Activating NK Receptor;NK-T-B-Antigen;NTB-A;CD352;SLAMF6;KALI;Ly108;NTBA;SF2000
Species	Human
Expression Host	E.coli
Sequence	Met1-Ser103
Accession	Q96FQ6
Calculated Molecular Weight	11.8 kDa
Observed molecular weight	12 kDa
Tag	None

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 20mM Histidine-HCl, 6% Trehalose, 4% Mannitol, 100mM NaCl, 0.05% Tween 80, pH 5.5. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

S100A16 is a member of S100 protein superfamily that carries calcium-binding EF-hand motifs. S100 proteins are cell- and tissue-specific and are involved in many intra- and extracellular processes through interacting with specific target proteins. S100A16 expression was found to be astrocyte-specific. The S100A16 protein was found to accumulate within nucleoli and to translocate to the cytoplasm in response to Ca(2+) stimulation. The homodimeric structure of human S100A16 in the apo state has been obtained both in the solid state and in solution; resulting in good agreement between the structures with the exception of two loop regions. The homodimeric solution structure of human S100A16 was also

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calculated in the calcium(II)-bound form. Immunoprecipitation analysis revealed that S100A16 could physically interact with tumor suppressor protein p53; also a known inhibitor of adipogenesis. Overexpression or RNA interference-initiated reduction of S100A16 led to the inhibition or activation of the expression of p53-responsive genes; respectively. S100A16 protein is a novel adipogenesis-promoting factor.

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