# Recombinant Human S100A16/S100F Protein

Catalog Number: PKSH033549



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

-					
- 1	00	cri	m	17	٦m
J			174	, T. U	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

 Species
 Human

 Mol\_Mass
 11.8 kDa

 Accession
 Q96FQ6

**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 20mM Histidine-HCl, 6% Trehalose, 4%

Mannitol, 100mM NaCl, 0.05% Tween 80, pH 5.5.

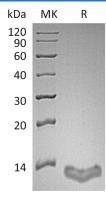
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

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

S100A16 is a member of S100 protein superfamily that carries calcium-binding EF-handmotifs. S100 proteins are cell-and tissue-specific and are involved in many intra-and extracellular processes hrough interacting with specific target protein s. 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 insolution; resulting in good agreement between the structures with the exception of two loop regions. The homodimeric solution structure of human S100A16 was also calculated in the calcium(II)-bound form. Immunoprecipitation analysis revealed that S100A16 could physically interact with tumor suppress or 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-responsivegenes; respectively. S100A16 protein is a novel adipogenesis-promoting factor.

## For Research Use Only