

S100A6 Protein, Mouse, Recombinant

General Information

Synonyms:	2A9;PRA;5B10;S100 calcium binding protein A6;Cacy;CALCYCLIN
Protein Construction:	A DNA sequence encoding the mouse S100A6 (NP_035443.1) (Met 1-Lys 89) was expressed. Predicted N terminal: Met
Species:	Mouse
Expression Host:	E. coli
Accession:	P14069
Molecular Weight:	10 kDa (predicted); 10 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 98 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

S100 protein is a family of low molecular weight protein found in vertebrates characterized by two EF-hand calcium-binding motifs. There are at least 21 different S100 proteins, and the name is derived from the fact that the protein is 100% soluble in ammonium sulfate at neutral pH. Most S100 proteins are disulfide-linked homodimer, and is normally present in cells derived from the neural crest, chondrocytes, macrophages, dendritic cells, etc. S100 proteins have been implicated in a variety of intracellular and extracellular functions. They are

involved in regulation of protein phosphorylation, transcription factors, the dynamics of cytoskeleton constituents, enzyme activities, cell growth and differentiation, and the inflammatory response. S100A6 (S100 calcium-binding protein A6) is a member of the S100 family of proteins, and functions in prolactin secretion, and exocytosis. Chromosomal rearrangements and altered expression of S100A6 have been implicated in melanoma.

Reference

Schäfer, B.W. et al., 1996, Trends Biochem. Sci. 21 (4): 134-140.

Donato,R. et al., 2003, Microsc. Res. Tech. 60 (6): 540-551.

Nowotny, M. et al., 2003, J. Biol. Chem. 278 (29): 26923-26928.

Nonaka D, et al., 2008, J. Cutan. Pathol. 35 (11): 1014-1019.

Marenholz, I. et al., 2004, Biochem. Biophys. Res. Commun. 322 (4): 1111-22.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481