

S100A14 Protein, Human, Recombinant (His)

General Information

Synonyms:	S100 calcium binding protein A14;BCMP84;S100A15
Protein Construction:	A DNA sequence encoding the native human S100A14 (NP_065723.1) (Gly 2-His 104) was expressed, with a polyhistidine tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	E. coli
Accession:	Q9HCY8
Molecular Weight:	13 kDa (predicted); 13 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:	> 85 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Supplied as sterile 50 mM Tris, 20% glycerol, pH 7.5.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue 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. Protein S100-A14, also known as S100 calcium binding protein A14, S114 and S100A14, is a cytoplasm protein which belongs to the S-100 family.

A DRUG SCREENING EXPERT

It is expressed at highest levels in colon and at moderate levels in thymus, kidney, liver, small intestine, and lung. Low expression in heart and no expression is seen in brain, skeletal muscle, spleen, placenta and peripheral blood leukocytes.

Reference

- Pietas A., et al., 2002, Genomics 79: 513-22.
Donato, R. et al., 2003, Microsc. Res. Tech. 60 (6): 540-51.
Gebhardt, C. et al., 2006, Biochem Pharmacol. 72 (11):1622-31.
Nonaka, D. et al., 2008, J. Cutan. Pathol. 35 (11): 1014-9.
Lim, SY. et al., 2008, J Immunol. 181 (8): 5627-36.
Heibeck T.H. et al., 2009, J. Proteome Res. 8:3852-61.

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