

S100P Protein, Human, Recombinant (His)

General Information

Synonyms:	Protein S100-E;S100E;S100P;S100 Calcium-Binding Protein P;Protein S100-P
Protein Construction:	Met1-Lys95
Species:	Human
Expression Host:	E. coli
Accession:	P25815
Molecular Weight:	12 KDa (reducing condition)
AA Sequence:	Met1-Lys95

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 1 mM DTT, 100 mM NaCl, 20% Glycerol, pH 8.0.

Preparation and Storage

Stability & Storage:

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.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Protein S100-P (S100P) belongs to the S100 family of Calcium-Binding Proteins. S100P is 95 amino acids in length and it contains 2 EF-Hand Calcium-Binding Motifs. The EF-Hand Motif binds calcium, which likely alters molecular conformation. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells and it is involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. In addition to binding Ca, S100P also binds Zn and Mg, and may play a role in the etiology of prostate cancer.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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