



Recombinant Protein Technical Manual
Recombinant Human S100P/S100E Protein (His Tag)
RPES4041

Product Data:

Product SKU: RPES4041

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P25815

Protein Information:

Molecular Mass: 12.6 kDa

AP Molecular Mass: 15-30 kDa

Tag: N-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM Tris, 1mM DTT, 0.1M NaCl, 20% Glycerol, pH 8.0 .

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Protein S100-P; Protein S100-E; S100 Calcium-Binding Protein P; S100P; S100E; MIG9

Immunogen Information:

Sequence: Met 1-Lys95

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.