



Recombinant Protein Technical Manual

Recombinant Human S100A8 Protein (His Tag)

RPES4020

Product Data:

Product SKU: RPES4020

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P05109

Protein Information:

Molecular Mass: 11.7 kDa

AP Molecular Mass: 13 kDa

Tag: C-6His

Bio-activity:

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

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

Storage: 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 HEPES, 150mM NaCl, pH 7.4.

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

Application:

Synonyms: Protein S100-A8; S100A8; Calgranulin-A; Cystic fibrosis antigen; Leukocyte L1 complex light chain; MRP-8; 60B8AG; CAGA; CFAG; CGLA; CP0; L1Ag; MA387; MIF; MRP8; NIF; P8

Immunogen Information:

Sequence: Met 1-Glu93

Background:

Protein S100-A8 (also MRP8 and calgranulin A) is a calcium- and zinc-binding protein. It plays a prominent role in the regulation of inflammatory processes and immune response. S100A8 can induce neutrophil chemotaxis and adhesion. Its role as an oxidant scavenger has a protective role in preventing exaggerated tissue damage by scavenging oxidants. It can act as a potent amplifier of inflammation in autoimmunity as well as in cancer development and tumor spread.