

Human S100A8 & S100A9 Heterodimer, N-Strep II, C-His Tag Protein

HA211445



Product name:	Human S100A8 & S100A9 Heterodimer, N-Strep II, C-His Tag
Species reactivity:	Human
Protein construction description:	A DNA sequence encoding the human S100A8 (P05109) (Met1-Glu93) was fused with a strep II tag at the N-terminus, constructed the plasmid 1; A DNA sequence encoding the human S100A9 (P06702) (Met1-Pro114) was fused with a his tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the S100A8 & S100A9 heterodimer was purified.
Background:	Calprotectin, a member of the widespread calcium-binding S-100 protein family, is present in remarkably high concentration in the cytoplasm of human neutrophils. The calprotectin molecule is composed of light (MRP8) and heavy (MRP14) subunits. Although not secreted from intact neutrophils, calprotectin release from dead and dying neutrophils creates high concentrations of the protein in inflammatory or abscess fluids and in the intestinal tract lumen of patients with inflammatory bowel disease.
Purity:	>95% as determined by SDS-PAGE.
Endotoxin:	Less than 1.0 EU per µg by the LAL method.
Fragment region:	S100A8 (1-93) & S100A9 (1-114)
Source:	E.coli
Accession:	P05109 & P06702
Predicted molecular mass:	12.7 kDa (S100A8) and 14.5 kDa (S100A9)
Formulation:	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution:	Reconstitute at 250 µg/ml in sterile water.
Storage:	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

Service mail: support@huabio.cn

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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

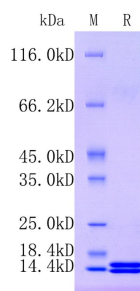


Fig1: Protein on SDS-PAGE under reducing (R) condition.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.