

Mouse Calprotectin (S100A8&S100A9) Protein

Cat. No. CAL-ME101

Description

Source	Recombinant Mouse Calprotectin (S100A8&S100A9) Protein is expressed from E.coli with His tag at the C-terminus. It contains Pro2-Glu89 (S100A8) and Ala2-Lys113 (S100A9).
Accession	P27005(S100A8)&P31725(S100A9)
Molecular Weight	The protein has a predicted MW of 11.26 kDa (S100A8) and 12.91 kDa (S100A9) same as Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

Formulation	Lyophilized from 0.22 µm filtered solution in PBS, 2mM DTT (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

Assay Data

Bis-Tris PAGE



Mouse Calprotectin (S100A8&S100A9) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.