

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 > 90% as determined by HPLC

Formulation and Storage

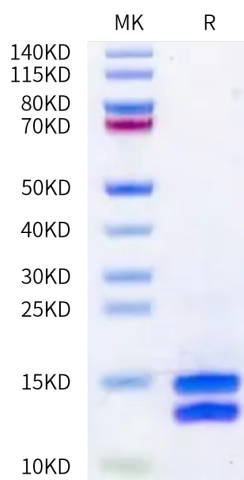
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

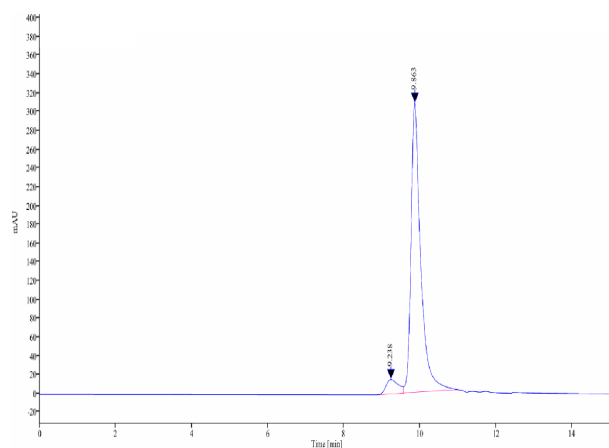
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



The purity of Mouse Calprotectin (S100A8&S100A9) is greater than 90% as determined by SEC-HPLC.