

Datasheet for ABIN7274018

Calprotectin Protein (S100A8/A9) (His tag)**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Calprotectin (S100A8/A9)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Calprotectin protein is labelled with His tag.

Product Details

Sequence:	Met1-Glu93(S100A8) & Thr2-Pro114(S100A9)
Purity:	> 95% as determined by Tris-Bis PAGE,> 95% as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	Calprotectin (S100A8/A9)
Alternative Name:	Calprotectin (S100A8/A9 Products)
Background:	Protein S100-A8,Calgranulin-A,CFAG,MRP-8,S100 calcium-binding protein A8,Protein S100-A9,MRP-14,S100 calcium-binding protein A9,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

Target Details

	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.
Molecular Weight:	11.7 kDa(S100A8)&13.2 kDa(S100A9) same as Tris-Bis PAGE result.
Pathways:	S100 Proteins

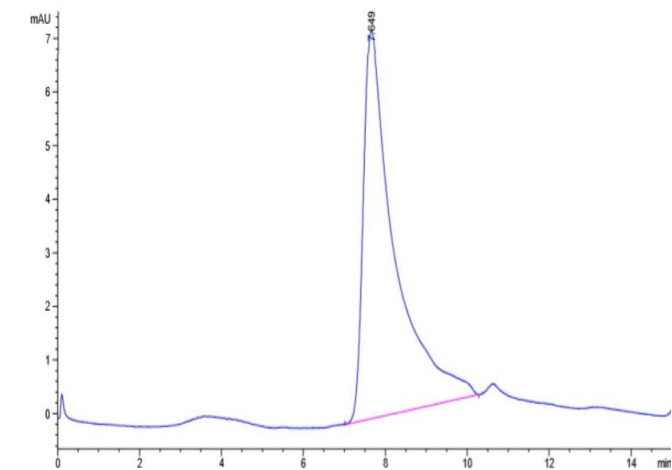
Application Details

Restrictions:	For Research Use only
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Handling

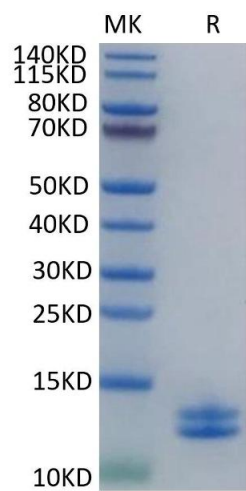
Format:	Lyophilized
Reconstitution:	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in 2 mM DTT, PBS (pH 7.2). Normally 5 % trehalose is added as protectant before lyophilization.
Storage:	4 °C,-80 °C
Storage Comment:	Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Images



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1. The purity of Human Calprotectin (S100A8&S100A9) is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 2. Human Calprotectin (S100A8&S100A9) on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .