

AR09453PU-L**Human S100A9 / Calgranulin-B / MRP14 (1-114, His-tag) - Purified**

Alternate names:	CAGB, Calprotectin L1H subunit, Leukocyte L1 complex heavy chain, MRP-14, Migration inhibitory factor-related protein 14, S100 calcium-binding protein A9, S100-A9
Quantity:	0.5 mg
Concentration:	1.0 mg/ml (determined by Bradford assay)
Background:	S100-A9, also known as Calgranulin B, belongs to the S100 family containing EF-hand type Ca ²⁺ -binding proteins. It is involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation, and associated with the disease cystic fibrosis. S100A9 has been implicated in the abnormal differentiation of myeloid cells in the stroma of cancer. This protein may function in the inhibition of casein kinase.
Uniprot ID:	P06702
NCBI:	NP_002956
GeneID:	6280
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >90% by SDS - PAGE Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% Glycerol, 0.1 M NaCl
Description:	Recombinant S100A9 protein, fused to <i>His-tag</i> at C-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. AA Sequence: MTCKMSQLER NIETIINTFH QYSVKLGHPD TLNQGEFKEL VRKDLQNFLK KENKNEKVIE HIMEDLDTNA DKQLSFEEFI MLMARLTWAS HEKMHEGDEG PGHHHKPGLG EGTPLEHHHH HH Molecular weight: 14.3 kDa (122 aa), confirmed by MALDI-TOF
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Schäfer BW, Heizmann CW. The S100 family of EF-hand calcium-binding proteins: functions and pathology. Trends Biochem Sci. 1996 Apr;21(4):134-40. PubMed PMID: 8701470. 2. Nacken W, Roth J, Sorg C, Kerkhoff C. S100A9/S100A8: Myeloid representatives of the S100 protein family as prominent players in innate immunity. Microsc Res Tech. 2003 Apr 15;60(6):569-80. PubMed PMID: 12645005.

Pictures:

