

S100A9 Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	Calgranulin-B;MRP-14;CAGB;Calprotectin L1H subunit;MRP14;p14;S100-A9
Protein Construction:	Met1-Arg114
Species:	Cynomolgus
Expression Host:	E. coli
Accession:	A0A2K5VRV3
Molecular Weight:	14.70 kDa (predicted) same as Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μ m filtered solution in PBS, 1 mM DTT, 10% Glycerol (pH 7.4).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C . Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

S100A8 and S100A9 (also known as MRP8 and MRP14, respectively) are Ca^{2+} binding proteins belonging to the S100 family. They often exist in the form of heterodimer, while homodimer exists very little because of the stability. S100A8/A9 is constitutively expressed in neutrophils and monocytes as a Ca^{2+} sensor, participating in cytoskeleton rearrangement and arachidonic acid metabolism.

Reference

Wang S, et al. S100A8/A9 in Inflammation. Front Immunol. 2018 Jun 11;9:1298. doi: 10.3389/fimmu.2018.01298. PMID: 29942307; PMCID: PMC6004386.

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