



# Recombinant Rat Protein S100-A9 (S100a9)

<b>Product Code</b>	CSB-YP020642RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P50116
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	AAKTGSQLE RSISTIINVF HQYSRKYGHP DTLNKAEFKE MVNKDLPNFL KREKRNENLL RDIMEDLDTN QDNQLSFEEC MMLMGKLIFA CHEKLHENNP RGHDHSHGKG CGK
<b>Source</b>	Yeast
<b>Target Names</b>	S100a9
<b>Protein Names</b>	Recommended name: Protein S100-A9 Alternative name(s): Calgranulin-B Migration inhibitory factor-related protein 14 Short name= MRP-14 Short name= p14 Myeloid-related protein 14 S100 calcium-binding protein A9
<b>Expression Region</b>	2-113
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This protein is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in the inhibition of casein kinase and altered expression of this protein is associated with the disease cystic fibrosis.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.