

Recombinant Rat S100a8 Protein, His-tagged

Cat. No. S100a8-2039R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat S100a8 Protein (Met1-Glu89) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Met1-Glu89
Description	Predicted to enable calcium ion binding activity and calcium-dependent protein binding activity. Involved in several processes, including autocrine signaling; response to ethanol; and response to lipopolysaccharide. Located in extracellular space. Biomarker of urinary bladder cancer. Human ortholog(s) of this gene implicated in myocarditis. Orthologous to human S100A8 (S100 calcium binding protein A8).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 13.9 kDa Accurate Molecular Mass: 11 kDa
Purity	> 95%
Applications	Cell culture; Activity Assays.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

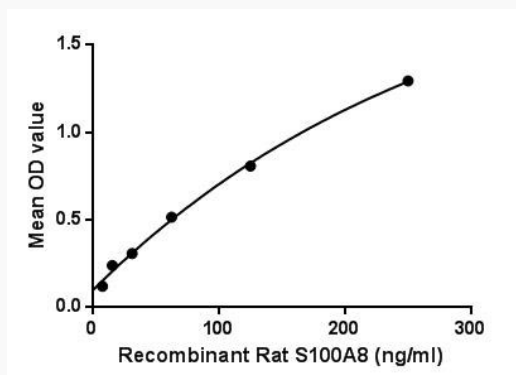
Gene Name	S100a8 S100 calcium binding protein A8 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	S100a8
Synonyms	S100A8; S100 calcium binding protein A8; protein S100-A8; p8; MRP-8; calgranulin-A; migration inhibitory factor-related protein 8; S100 calcium binding protein A8 (calgranulin A); S100 calcium-binding protein A8 (calgranulin A); Mrp8;
Gene ID	116547
mRNA Refseq	NM_053822
Protein Refseq	NP_446274
UniProt ID	P50115

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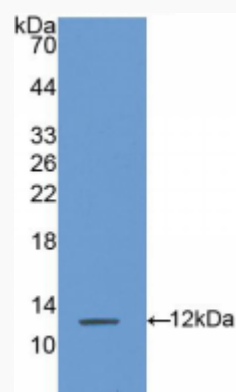
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Bioactivity



The binding activity of S100A8 with S100A9.

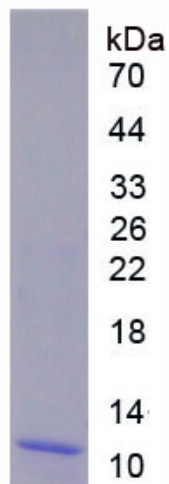
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