

S100A8 Protein, Rat (His)

Cat. No.:	HY-P71275
Synonyms:	Protein S100-A8; S100a8; Calgranulin-A; Chemotactic cytokine CP-10; Leukocyte L1 complex light chain; Migration inhibitory factor-related protein 8; MRP-8; Pro-inflammatory S100 cytokine; S100 calcium-binding protein A8; Caga; Mrp8
Species:	Rat
Source:	E. coli
Accession:	P50115 (M1-E89)
Gene ID:	116547
Molecular Weight:	Approximately 13.0 kDa

PROPERTIES

AA Sequence	M A T E L E K A L S N V I E V Y H N Y S G I K G N H H A L Y R D D F R K M V T T E C P Q F V Q N K N T E S L F K E L D V N S D N A I N F E E F L V L V I R V G V A A H K D S H K E
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	S100A8 is a molecule that plays a role in inflammation and immune response. It acts as a danger signal and stimulates innate immune cells by binding to receptors such as Toll-like receptor 4 (TLR4) and receptor for advanced glycation endproducts (AGER). This binding activates signaling pathways that amplify the pro-inflammatory response.
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Caution: Product has not been fully validated for medical applications. For research use only.

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