

Overview

Synonyms	Calgranulin A, MRP8, CAGA, CGLA, CFAG, Protein S100-A8, S100 calcium-binding protein A8, Migration inhibitory factor-related protein 8, MRP-8, p8, Cystic fibrosis antigen, Leukocyte L1 complex light chain, Calprotectin L1L subunit, Urinary stone protein band A, S100A8, MIF, NIF, L1Ag, CP-10, MA387, 60B8AG.
Description	S100 calcium-binding protein A8 (S100A8) is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100A8 protein plays an important role in the regulation of inflammation. It can activate inflammatory cells and cytokines via chemotactic activity for neutrophils, and it can bind to the receptor for advanced glycation end products (RAGE) and Toll-like receptor 4 (TLR4), thus mediating intracellular inflammatory signaling transduction. S100A8 is detected in various human cancers, presenting abundant expression in neoplastic tumor cells as well as infiltrating immune cells. S100A8 exhibits high constitutive expression in neutrophils and activated macrophages, and is also found in epithelial cells under pathological conditions. Recombinant S100 calcium-binding protein A8 (S100A8) with His tag produced in <i>E. coli</i> is a single chain containing 100 amino acids with molecular mass of 11.8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Accession No	NP_002955.2
Species	Human
Source	<i>E. coli</i>
Sequence	MHHHHHMLT ELEKALNSII DVYHKYSLIK GNFHAVYRDD LKKLLETECP QYIRKKGADV WFKELDINTD GAVNFQEFLLI LVIKMGVAAH KKSHEESHKE

Properties

Measured Molecular Weight	11.8 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Formulation	Lyophilized after extensive dialysis against 20 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, pH8.0.
Reconstitution	Reconstituted in ddH ₂ O at 200 µg/ml.
Endotoxin Level	< 1 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant S100 calcium-binding protein A8 (S100A8) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, S100A8 remains stable up to 2 week at 4°C or up to 3 months at -20°C.
Note	For research use only

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura,
Delhi – 110034 (INDIA).

Mobile: +91-9810521400, Ph: +91-11-42208000

Email: customerservice@lifetechindia.com

Web: www.lifetechindia.com