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S100A8 Human, His-Myc

S100 Calcium Binding Protein A8, His-Myc Tag Human Recombinant
RCP1970

Product Overview

Name	S100A8 Human, His-Myc

Description

S100 Calcium Binding Protein A8, His-Myc Tag Human Recombinant

Accession (Primary)	P05109

Synonyms

S100 Calcium Binding Protein A8, S100 Calcium-Binding Protein A8 (Calgranulin A), Migration Inhibitory Factor-Related Protein 8, Leukocyte L1 Complex Light Chain , Urinary Stone Protein Band A, Calprotectin L1L Subunit, Cystic Fibrosis Antigen, Calgranulin-A, MRP8, CAGA, CFAG, P8, S100 Calcium Binding Protein A8 (Calgranulin A), S100 Calcium-Binding Protein A8, Calgranulin A, 60B8AG, CP-10, MA38, MRP-8, CGLA, L1Ag, MIF, NIF.

Introduction

S100A8 is a part 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 broad range of cells, and participate in the regulation of cellular processes such as cell cycle progression and differentiation. S100A8 plays a role in the inhibition of casein kinase and as a cytokine. S100A8 altered expression is related with cystic fibrosis disease. S100A8 is a calcium-binding protein that has antimicrobial activity against bacteria and fungi.S100A8 is crucial for resistance towards invasion by pathogenic bacteria. S100A8 up-regulates transcription of genes that are under the control of NF-kappa-B. S100A8 plays a role in the development of endotoxic shock in response to bacterial lipopolysaccharide. S100A8 endorses tubulin polymerization and promotes phagocyte migration and infiltration of granulocytes at sites of wounding. S100A8 takes part as a pro-inflammatory mediator in acute and chronic inflammation and up-regulates the release of IL8 and cell-surface expression of ICAM1.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

The S100A8 solution (1mg/ml) contains 20mM Tris-HCl (pH 8.0), 10% glycerol and 0.1M NaCl.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term

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storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGSH MLTELE KALNSIIDVY HKYSLIKGNF HAVYRDDLKK LLETECPQYI

RKKGADVWFK ELDINTDGAV NFQEFLILVI KMGVAAHKKS HEESHKE EQK LISEEDL.

Precautions

S100A8 Human, His-Myc is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P05109)