
Product Data Sheet

Product Name: S100A5 Mouse
 Cat. No.: GP24470
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Protein S100-A5; Protein S-100D; S100 calcium-binding protein A5; S100a5; S100d; S100D9.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMETPLE KALTTMVTTT HKYSGREGSK LTLSRKELKE LIKTELSLAE KMKESSIDNL MKSLDKNSDQ EIDFKEYSVF LTTLCMAYND FFLEDNK.		
Formulation	S100A5 protein (1mg/ml) is supplied in 20mM Tris-HCl buffer, pH8.0, 40% glycerol, 3mM DTT and 200mM NaCl.		

Introduction

S100 calcium binding protein A5 (S100A5) belongs to the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 family members are localized in the cytoplasm and/or nucleus of a wide range of cells, and are involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100A5 has a Ca²⁺ affinity 20-100 fold higher than the other S100 proteins investigated under identical conditions. Furthermore, S100A5 protein binds Zn²⁺ and Cu²⁺, and Cu²⁺ strongly which harms the binding of Ca²⁺. S100A5 is expressed in very limited regions of the adult brain.

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

Background

S100A5 Mouse Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 117 amino acids (1-93) and having a molecular mass of 13.4kDa. The

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S100A5 is fused to a 24 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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