
Product Data Sheet

Product Name: S100P Human, His
Cat. No.: GP24484
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Protein S100-E; S100E; Migration-Inducing Gene 9; MIG9.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MTELETAMGM IIDVFSRYSG SEGSTQTLTK GELKVLMEKE LPGFLQSGKD KDAVDKLLKD LDANGDAQVD FSEFIVFVAA ITSACHKYFE KAGLK.		
Formulation	S100P Human solution (1mg/ml) containing 20mM Tris-HCl pH-8, 1mM DTT, 0.05M NaCl & 20% glycerol.		

Introduction

S100P is a Ca²⁺ binding protein that is part of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are found in the cytoplasm and/or nucleus of a large range of cells, and participates in the regulation of a number of cellular function such as cell cycle progression and differentiation. S100P participates in numerous biological functions but the exact functions or mechanism of its action is still mostly unknown. Once S100P binds calcium ions it goes through a conformational change that results in an exposure of a hydrophobic surface which permits the interaction with specific target proteins.

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

S100P Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 115 amino acids (1-95a.a.) and having a molecular mass of 12.6 kDa. S100P protein is fused to a 20 amino acid His tag at N-terminus and is purified by

Caution: Product has not been fully validated for medical applications. For research use only.

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standard chromatography.

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