

32-4743: Recombinant Human S100 Calcium Binding Protein A5

Alternative Name : Protein S100-A5, Protein S-100D, S100 calcium-binding protein A5, S100A5, S100D.

Description

Source : Escherichia Coli. S100A5 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 112 amino acids (1-92 a.a.) and having a molecular mass of 12.9kDa. The S100A5 is purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The S100A5 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 30% glycerol, 0.1M NaCl and 0.1mM PMSF.
Storage condition :	S100A5 should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH METPLEKALT TMVTTFHKYS GREGSKLTLS RKELKELIKK ELCLGEMKES SDDLKMSLD KNSDQEIDFK EYSVFLTMLC MAYNDFLED NK.

