

## 32-4744: Recombinant Mouse S100 Calcium Binding Protein A5

**Alternative Name :** Protein S100-A5, Protein S-100D, S100 calcium-binding protein A5, S100a5, S100d, S100D9.

### Description

Source : Escherichia Coli. 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 S100A5 is fused to a 24 amino acid His-Tag at N-terminus and 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 Ca<sup>2+</sup> affinity 20-100 fold higher than the other S100 proteins investigated under identical conditions. Furthermore, S100A5 protein binds Zn<sup>2+</sup> and Cu<sup>2+</sup>, and Cu<sup>2+</sup> strongly which harms the binding of Ca<sup>2+</sup>. S100A5 is expressed in very limited regions of the adult brain.

### Product Info

<b>Amount :</b>	20 µg
<b>Purification :</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Content :</b>	S100A5 protein (1mg/ml) is supplied in 20mM Tris-HCl buffer, pH8.0, 40% glycerol, 3mM DTT and 200mM NaCl.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	MGSSHHHHHH SGLVPRGSH MGSHMETPLE KALTTMVTTF HKYSGREGSK LTLRKELKE LIKTELSLAE KMKESSIDNL MKSLDKNSDQ EIDFKEYSVF LTTLCMAYND FFLEDNK.

