



# Recombinant Human Protein S100-A5 (S100A5)

<b>Product Code</b>	CSB-MP020633HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P33763
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	METPLEKALT TMVTTFFHKYS GREGSKLTLS RKELKELIKK ELCLGEMKES SDDLKMSLD KNSDQEIDFK EYSVFLTMLC MAYNDFFLED NK
<b>Source</b>	Mammalian cell
<b>Target Names</b>	S100A5
<b>Protein Names</b>	Recommended name: Protein S100-A5 Alternative name(s): Protein S-100D S100 calcium-binding protein A5
<b>Expression Region</b>	1-92
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This protein is a member 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 wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein has a Ca <sup>2+</sup> affinity 20- to 100-fold higher than the other S100 proteins studied under identical conditions. This protein also binds Zn <sup>2+</sup> and Cu <sup>2+</sup> , and Cu <sup>2+</sup> strongly which impairs the binding of Ca <sup>2+</sup> . This protein is expressed in very restricted regions of the adult brain.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.