

S100 Calcium Binding Protein B Recombinant Protein | S100b recombinant protein

Recombinant Human S100 Calcium Binding Protein B

CATALOG #
AAA38424

HOST
E Coli

PRODUCT SYNONYMS

S100 Calcium Binding Protein B; Recombinant Human S100 Calcium Binding Protein B; S100B Human; S100 Calcium Binding Protein B Human Recombinant; Protein S100-B; S100 calcium-binding protein B; S-100 protein subunit beta; S-100 protein beta chain; S100B; NEF; S100; S100beta; S100b recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	S100B (1mg/ml) is supplied in 20mM Tris-HCl buffer (pH8.0), 1mM DTT and 10% glycerol. Sterile Filtered clear solution.
Sequence	MGSSHHH HHHSSGLVPR GSHMSE LEKAMVALID VFHQYSGREG DKHKLLKSEL KELINNELSH FLEEIKEQEV VDKVMETLDN DGDGECDFQE FMAFVAMVTT ACHEFFEHE
Sequence Length	92
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree 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.

ADDITIONAL INFORMATION

Related Product Information for S100b recombinant protein	Description: S100B Human Recombinant produced in E Coli is single, a non-glycosylated, Polypeptide chain containing 112 amino acids fragment (1-92) with a 20 amino acids N-terminal His tag and having a total molecular mass of 12.8kDa. The S100B is purified by proprietary chromatographic techniques. Introduction: S100b is a member of the S100 family of proteins which are a family of EF-hand calcium binding proteins that exist mostly as dimers of the 20 currently identified individual S100 monomers. The S100B homodimer is expressed in cells of the central nervous system, glial cells and in certain peripheral cells e.g. Schwann cells, melanocytes, adipocytes and chondrocytes. S100 proteins are localized either in the cytoplasm or the nucleus of a wide range of cells. S100 proteins are involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. There are at least 13 members in the S100 gene family, which are located as a cluster on chromosome 1q21; however, S100b is located at 21q22.3. The determination of S100B in serum levels may be used to monitor the extent of brain injury and malignant melanoma. S100b proteins may have a role in Neurite extension, proliferation of melanoma cells, stimulation of Ca²⁺ fluxes, inhibition of PKC-mediated phosphorylation, astrocytosis and axonal proliferation, and inhibition of microtubule assembly. Chromosomal rearrangements and altered expression of the S100b gene are implicated in several neurological, neoplastic, and other types of diseases, including Alzheimer's disease, Down's syndrome, epilepsy, amyotrophic lateral sclerosis, melanoma, and type I diabetes.
Product Categories/Family for S100b recombinant protein	Recombinant & Natural Proteins ; Recombinant Proteins ; Calcium Binding Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	5454034
NCBI GeneID	6285

NCBI Accession #	NP_006263.1
NCBI GenBank Nucleotide #	NM_006272.2
UniProt Accession #	P04271 ; D3DSN6
Molecular Weight	10,713 Da
NCBI Official Full Name	protein S100-B
NCBI Official Synonym Full Names	S100 calcium binding protein B
NCBI Official Symbol	S100B
NCBI Official Synonym Symbols	NEF; S100; S100-B; S100beta
NCBI Protein Information	protein S100-B; S-100 calcium-binding protein, beta chain; S-100 protein subunit beta; S100 calcium-binding protein, beta (neural)
UniProt Protein Name	Protein S100-B
UniProt Gene Name	S100B
UniProt Entry Name	S100B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/s100b-recombinant-protein-e-coli/38424>