

Recombinant Full Length Human S100B Protein

Cat. No. S100B-31009TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-92 of Human S100 beta
Species	Human
Source	E.coli
ProteinLength	1-92 a.a.
Description	The protein encoded by this gene 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; however, this gene is located at 21q22.3. This protein may function 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 this gene have been implicated in several neurological, neoplastic, and other types of diseases, including Alzheimers disease, Downs syndrome, epilepsy, amyotrophic lateral sclerosis, melanoma, and type I diabetes.
Tissue specificity	Although predominant among the water-soluble brain proteins, S100 is also found in a variety of other tissues.

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Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 50mM Potassium chloride, 30mM HEPES, pH 6.5 Note: Under these conditions, to avoid precipitation, the product can be concentrated to a maximum of 0.2mM (dimer).
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the S-101 family. Contains 2 EF-hand domains.
Full Length	Full L.

GENE INFORMATION

Gene Name	S100B S100 calcium binding protein B [Homo sapiens]
Official Symbol	S100B
Synonyms	S100B; S100 calcium binding protein B; S100 calcium binding protein, beta (neural); protein S100-B; S100beta;
Gene ID	6285
mRNA Refseq	NM_006272
Protein Refseq	NP_006263
MIM	176990

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Uniprot ID	P04271
Chromosome Location	21q22.3
Pathway	Activated TLR4 signalling, organism-specific biosystem; Advanced glycosylation endproduct receptor signaling, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; MyD88 cascade initiated on plasma membrane, organism-specific biosystem;
Function	RAGE receptor binding; S100 beta binding; calcium ion binding; calcium-dependent protein binding; identical protein binding;

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