

# Recombinant Full Length Human S100B Protein, His-tagged

Cat. No. S100B-2724H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human S100B protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 12.8 kDa (112aa), confirmed by MALDI-TOF.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-92 a.a.
<b>Description</b>	S100B 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. This protein function in Neurite extension, proliferation of melanoma cells, stimulation of Ca <sup>2+</sup> fluxes, inhibition of PKC-mediated phosphorylation, astrocytosis and axonal proliferation, and inhibition of microtubule assembly.
<b>Sequences Of Amino Acids</b>	MGSSHHHHHH SSGLVPRGSH MSELEKAMVA LIDVFHQYSG REGDKHKLKK SELKELINNE LSHFLEEIKE QEVVDKVMET LDNDGDGECDFQEFMAFVAM VTTACHEFFE HE
<b>Form</b>	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol.
<b>Purity</b>	> 90% by SDS – PAGE.

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**Concentration** 1 mg/ml (determined by Bradford assay).

**Storage** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

**Gene Name** S100B S100 calcium binding protein B [ Homo sapiens ]

**Synonyms** S100B; S100 calcium binding protein B; NEF; S100; S100 calcium-binding protein, beta; S100 beta; OTTHUMP00000174958; S-100 calcium-binding protein, beta chain; S100 calcium binding protein, beta (neural); S100 calcium-binding protein, beta (neural); Protein S100-B; S100 calcium-binding protein B; S-100 protein subunit beta; S-100 protein beta chain

**Gene ID** 6285

**mRNA Refseq** NM\_006272

**Protein Refseq** NP\_006263

**MIM** 176990

**UniProt ID** P04271

**Chromosome Location** 21q22.3

**Function** S100 beta binding; calcium ion binding; calcium-dependent protein binding; protein homodimerization activity; protein homodimerization activity; tau protein binding; zinc ion binding

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