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Datasheet for ABIN7319391 S100B Protein (His tag)



Overview	
Quantity:	50 µg
Target:	S100B
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This S100B protein is labelled with His tag.
Product Details	
Purpose:	Recombinant Human S100B Protein (His Tag)
Sequence:	Met 1-Glu92
Characteristics:	Recombinant Human S100 Calcium Binding Protein B is produced by our E.coli expression system and the target gene encoding Met1-Glu92 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g as determined by the LAL method.

Target Details

Target:	S100B
Alternative Name:	S100B (S100B Products)
Background:	Background: S100-B, is an acidic protein with a molecular weight of 21 kDa belonging to the
	S100 family. S100-B contains two EF-hand-type calcium-binding motifs separated by a hinge

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	region with a hydrophobic cleft. S100-B plays an important role in neurodevelopment,
	differentiation, and brain construction. S100-B has neuroprotective effects, but at high
	concentrations S100-B is neurotoxic. Extracellular concentration of S100-B increases following
	brain damage, which easily penetrates into cerebrospinal fluid in brain damage and then into
	the blood. S100-B is expressed and produced by astrocytes in vertebrate brains and in the CNS,
	and the astrocytes are the major cells producing S100-B protein in gray matter, as well as
	oligodendrocytes are the predominant S100-B in protein producing cells in white matter. The
	major advantage of using S100-B is that elevations in serum or CSF levels provide a sensitive
	measure for determining CNS injury at the molecular level before gross changes develop,
	enabling timely delivery of crucial medical intervention before irreversible damage occurs. In
	addition, S100-B, which is also present in human melanocytes, is a reliable marker for
	melanoma malignancy both in bioptic tissue and in serum.
	Synonym: Protein S100-B, S-100 protein beta chain, S-100 protein subunit beta, S100 calcium-
	binding protein B, S100b, S100 beta, S100 calcium binding protein B,NEF,S100,S100-
	B,S100beta
Molecular Weight:	12.2 kDa
NCBI Accession:	NP_006263
Pathways:	Regulation of Muscle Cell Differentiation, Positive Regulation of Immune Effector Process, Toll-
	Like Receptors Cascades, Regulation of long-term Neuronal Synaptic Plasticity, S100 Proteins
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 20 mM PBS,150 mM NaCl, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.

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