

Product datasheet for PH300277

S100 beta (S100B) (NM_006272) Human Mass Spec Standard

Product data:

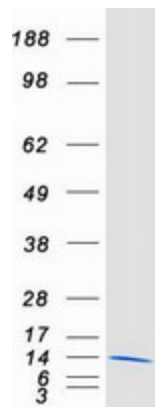
Product Type:	Mass Spec Standards
Description:	S100B MS Standard C13 and N15-labeled recombinant protein (NP_006263)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200277
Predicted MW:	10.7 kDa
Protein Sequence:	>RC200277 protein sequence Red=Cloning site Green=Tags(s) MSELEKAMVALIDVFHQYSGREGDKHKLKKSELKELINNELSHFLEEIKEQEVVDKVMETLDNDGDGECDFQEFMAFVAMVTTACHEFFEHE TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_006263
RefSeq Size:	1135
RefSeq ORF:	276
Synonyms:	NEF; S100; S100-B; S100beta
Locus ID:	6285
UniProt ID:	P04271 , A0A0S2Z4C5
Cytogenetics:	21q22.3



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Summary:

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 Alzheimer's disease, Down's syndrome, epilepsy, amyotrophic lateral sclerosis, melanoma, and type I diabetes. [provided by RefSeq, Jul 2008]

Product images:

Coomassie blue staining of purified S100B protein (Cat# [TP300277]). The protein was produced from HEK293T cells transfected with S100B cDNA clone (Cat# [RC200277]) using MegaTran 2.0 (Cat# [TT210002]).