

## Product datasheet for **AR52041PU-N**

### S100B (1-92) Human Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | S100B (1-92) human protein, 0.5 mg   |
| Species:                              | Human  |
| Expression Host:                      | E. coli  |
| Expression cDNA Clone or AA Sequence: | MSELEKAMVA LIDVFHQYSG REGDKHKLKK SELKELINNE LSHFLEEIKE QEVDKVMET LDNDGDGECD FQEFMAFVAM VTTACHEFFE HE   |
| Predicted MW:                         | 10.7 kDa   |
| Concentration:                        | lot specific   |
| Purity:                               | >95% by SDS - PAGE   |
| Buffer:                               | Presentation State: Purified<br>State: Liquid purified protein<br>Buffer System: Phosphate Buffered Saline (pH 7.4) containing 10% glycerol. |
| Preparation:                          | Liquid purified protein  |
| Storage:                              | Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.<br>Avoid repeated freezing and thawing.                 |
| Stability:                            | Shelf life: one year from despatch.  |
| RefSeq:                               | <a href="#">NP_006263</a>  |
| Locus ID:                             | 6285   |
| UniProt ID:                           | <a href="#">P04271</a> , <a href="#">A0A0S2Z4C5</a>  |
| Cytogenetics:                         | 21q22.3  |
| Synonyms:                             | NEF; S100; S100-B; S100beta  |



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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 Ca<sup>2+</sup> 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:**