

Product datasheet for **TP300278**

S100A1 (NM_006271) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human S100 calcium binding protein A1 (S100A1), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200278 protein sequence Red =Cloning site Green =Tags(s)
	MGSELETAMETLINVFHAHSGKEGDKYKLSKELKELLQTELSGFLDAQKDVAVDKVMKELDENGDGEV DFQEYVVLVAALTVACNNFFWENS
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	10.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_006262</u>
Locus ID:	6271
UniProt ID:	<u>P23297</u> , <u>A0A0S2Z4H2</u>
RefSeq Size:	607
Cytogenetics:	1q21.3



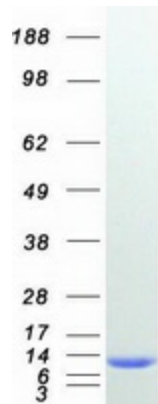
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RefSeq ORF: 282

Synonyms: S100; S100-alpha; S100A

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. This protein may function in stimulation of Ca²⁺-induced Ca²⁺ release, inhibition of microtubule assembly, and inhibition of protein kinase C-mediated phosphorylation. Reduced expression of this protein has been implicated in cardiomyopathies. [provided by RefSeq, Jul 2008]

Product images:



Coomassie blue staining of purified S100A1 protein (Cat# TP300278). The protein was produced from HEK293T cells transfected with S100A1 cDNA clone (Cat# [RC200278]) using MegaTran 2.0 (Cat# [TT210002]).