

Recombinant Human S100A2, His-tagged

Cat. No. S100A2-3725H Lot. No. (See product label)

SPECIFICATION

Product Overview	Total 108 AA. MW: 12.36 kDa (calculated). N-Terminal His-tag, 10 extra AA (highlighted).
Species	Human
Source	E.coli
Description	<p>Protein S100-A2 is a protein that in humans is encoded by the S100A2 gene. 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 have a tumor suppressor function. Chromosomal rearrangements and altered expression of this gene have been implicated in breast cancer.</p>
Form	Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 20mM TRIS, 50mM NaCl, pH 7.5.
Purity	95%, as determined by densitometric image analysis.
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Applications	Western blotting

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Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein
Sequences of amino acids	MKHHHHHHAS MMCSSLEQAL AVLVTTFHKY SCQEGDKFKL SKGEMKELLH KELPSFVGEK VDEEGLKKLM GSLDENSQQ VDFQEYAVFL ALITVMCNDF FQGCPDRP
Storage	Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.
Pathways	Direct p53 effectors

GENE INFORMATION

Gene Name	S100A2 S100 calcium binding protein A2 [Homo sapiens]
Official Symbol	S100A2
Synonyms	S100A2; S100 calcium binding protein A2; CAN19; S100L; MGC111539; protein S100-A2; OTTHUMP00000032967; S100 calcium-binding protein A2; Protein S100-A2; Protein S-100L
Gene ID	6273
mRNA Refseq	NM_005978
Protein Refseq	NP_005969

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MIM	176993
UniProt ID	P29034
Chromosome Location	1q21
Function	calcium ion binding

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