

## Recombinant Human S100A13, His-tagged

**Cat. No.** S100A13-3722H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Total 108 AA. MW: 12.66 kDa (calculated). N-Terminal His-tag, 10 extra AA (highlighted).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>               | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>          | Protein S100-A13 is a protein that in humans is encoded by the S100A13 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 is widely expressed in various types of tissues with a high expression level in thyroid gland. |
| <b>Form</b>                 | Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 20mM TRIS, 50mM NaCl, pH 7.5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Reconstitution</b>       | 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.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Applications</b>         | Western blotting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Quality Control Test</b> | BCA to determine quantity of the protein; SDS PAGE to determine purity of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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|                                 |                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | protein                                                                                                                                                                                                                                                                                                                                                          |
| <b>Sequences of amino acids</b> | MKHHHHHHAS MAAEPLTELE ESIETVVTF FTFARQEGRK DSLSVNEFKE<br>LVTQQLPHLL KDVGSLDEKM KSLDVNQDSE LKFNEYWRLI GELAKEIRKK<br>KDLKIRKK                                                                                                                                                                                                                                      |
| <b>Storage</b>                  | 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. |

## GENE INFORMATION

|                        |                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | S100A13 S100 calcium binding protein A13 [ Homo sapiens ]                                                       |
| <b>Official Symbol</b> | S100A13                                                                                                         |
| <b>Synonyms</b>        | S100A13; S100 calcium binding protein A13; protein S100-A13; S100 calcium-binding protein A13; Protein S100-A13 |
| <b>Gene ID</b>         | 6284                                                                                                            |
| <b>mRNA Refseq</b>     | NM_001024210                                                                                                    |
| <b>Protein Refseq</b>  | NP_001019381                                                                                                    |
| <b>MIM</b>             | 601989                                                                                                          |
| <b>UniProt ID</b>      | Q99584                                                                                                          |

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 1q21                                                                                                                                                                                    |
| <b>Function</b>            | RAGE receptor binding; calcium ion binding; copper ion binding; fibroblast growth factor 1 binding; lipid binding; protein binding; protein homodimerization activity; zinc ion binding |

**ProteinS100A13 PDB**  
**1yur**

