

Recombinant Human S10AD Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50865

Size: 10ug, 100ug

Protein Name: Protein S100-A13 (S100 calcium-binding protein A13)

Synonym: S100A13

UniProt ID: Q99584

UniProt Link: www.uniprot.org/uniprotkb/Q99584/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 98 AA

Molecular Weight: 11 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAAEPLTELEESIETVVTFFTFARQEGRKDSLVSNEFKELVTQQLPHLLKDVGSLDEKMKSLDVNQ
DSELKFNEYWRLIGELAKEIRKKKDLKIRKK

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Protein S100-A13 (S100 calcium-binding protein A13) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Plays a role in the export of proteins that lack a signal peptide and are secreted by an alternative pathway. Binds two calcium ions per subunit. Binds one copper ion. Binding of one copper ion does not interfere with calcium binding. Required for the copper-dependent stress-induced export of IL1A and FGF1. The calcium-free protein binds to lipid vesicles containing phosphatidylserine, but not to vesicles containing phosphatidylcholine (By similarity).

Subcellular Localization: Cytoplasm. Secreted. Note=Secretion is mediated by exposure to stress and requires copper ions.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.