

Recombinant Human EDA Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50271

Size: 10ug, 100ug

Protein Name: Ectodysplasin-A (Ectodermal dysplasia protein) (EDA protein) [Cleaved into: Ectodysplasin-A, membrane form; Ectodysplasin-A, secreted form]

Synonym: EDA, ED1, EDA2

UniProt ID: Q92838

UniProt Link: www.uniprot.org/uniprotkb/Q92838/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 391 AA

Molecular Weight: 41 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGYPEVERRELLPAAAPRERGSQGC GCGGAPARAGEGNSCLLFLGFFGLSLALHLLTLCCYLELRS
ELRRERGAESRLGSGTPGTSGTLSSLGGLDPDSPITSHLGQSPKQQPLEPGEAALHSDSQDGH
QMA LLNFFFPDEKPYSEESRRVRNRKRSKSNEGADGPVKNKKKGKKAGPPGPNP GPPGPPGPPG
PQGPPGIPGIPGIPGTTVMGPPGPPGPPGPPGPPGLQGPPSGAADKAGTRENQPAVVHLQGQGS
AIQVKNDLSGGVLNDWSRITMNPVKVFLHPRSGEVLVDGTYFIYSQVEVYYINFTDFASYEVVVDEK
PFLQCTRSIETGKTNYNTCYTAGVCLLKARQKIAVKMVHADISINMSKHTTFFGAIRLGEAPAS

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 Ectodysplasin-A (Ectodermal dysplasia protein) (EDA protein) [Cleaved into: Ectodysplasin-A, membrane form; Ectodysplasin-A, secreted form] 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: Cytokine which is involved in epithelial-mesenchymal signaling during morphogenesis of ectodermal organs. Functions as a ligand activating the DEATH-domain containing receptors EDAR and EDA2R (PubMed:11039935, PubMed:27144394, PubMed:34582123, PubMed:8696334). May also play a role in cell adhesion (By similarity).; [Isoform 1]: Binds only to the receptor EDAR, while isoform 3 binds exclusively to the receptor EDA2R.; [Isoform 3]: Binds only to the receptor EDA2R.

Subcellular Localization: Cell membrane ; Single-pass type II membrane protein .; [Ectodysplasin-A, secreted form]: Secreted .

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.