

Recombinant Human RO60 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50854

Size: 10ug, 100ug

Protein Name: RNA-binding protein RO60 (60 kDa SS-A/Ro ribonucleoprotein) (60 kDa Ro protein) (60 kDa ribonucleoprotein Ro) (RoRNP) (Ro 60 kDa autoantigen) (Ro60 autoantigen) (Sjogren syndrome antigen A2) (Sjogren syndrome type A antigen) (SS-A) (TROVE domain family member 2)

Synonym: RO60, SSA2, TROVE2

UniProt ID: P10155

UniProt Link: www.uniprot.org/uniprotkb/P10155/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 538 AA

Molecular Weight: 61 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEESVNQMQLNEKQIANSQDGYVWQVTD MNRLHRFLCFGSEG GTYYIKEQKLGLENAEALIRLIE
DGRGCEVIQEIKSFSQEGRTTKQEPMLFALAICSQCSDISTKQAAFKAVSEVCRIPHLFTFIQFKKDL
KESMKCGMWGRALRKAIADWYNEKGGMALALAVTKYKQRNGWSHKDLLRLSHLKPSSSEGLAIVTK
YITKGWKEVHELYKEKALSVETEKLLKYLEAVEKVKRTRDELEVIHLIEEHRLVREHLLTNHLKSKEVW
KALLQEMPLTALLRNLGKMTANSVLEPGNSEVSLVCEKLCNEKLLKKARIHPFHILIALETYKTGHGLR
GKLKWRPDEEILKALDAAFYKTFKTVEPTGKRFLAVDVSASMNQRVLGSLNASTVAAAMCMVVTR
TEKDSYVVAFSDEMVPVPTTDMTLQQVLMAMSQIPAGGTDCSLPMIWAQKTNTPADVFIVFTDNET
FAGGVHPAIALREYRKMDIPAKLIVCGMTSNGFTIADPDDRGM LDMCGFDTGALDVIRNFTLDMI

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 RNA-binding protein RO60 (60 kDa SS-A/Ro ribonucleoprotein) (60 kDa Ro protein) (60 kDa ribonucleoprotein Ro) (RoRNP) (Ro 60 kDa autoantigen) (Ro60 autoantigen) (Sjogren syndrome antigen A2) (Sjogren syndrome type A antigen) (SS-A) (TROVE domain family member 2) 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: RNA-binding protein that binds to misfolded non-coding RNAs, pre-5S rRNA, and several small cytoplasmic RNA molecules known as Y RNAs (PubMed:18056422, PubMed:26382853). Binds to endogenous Alu retroelements which are induced by type I interferon and stimulate proinflammatory cytokine secretion (PubMed:26382853). Regulates the expression of Alu retroelements as well as inflammatory genes (PubMed:26382853). May play roles in cilia formation and/or maintenance (By similarity).

Subcellular Localization: Cytoplasm . Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

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.