

Recombinant Mouse OASL2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52013

Size: 10ug, 100ug

Protein Name: 2'-5'-oligoadenylate synthase-like protein 2 (EC 2.7.7.84) (54 kDa 2'-5'-oligoadenylate synthase-like protein) (p54 OASL) (M1204)

Synonym: Oasl2

UniProt ID: Q9Z2F2

UniProt Link: www.uniprot.org/uniprotkb/Q9Z2F2/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 508 AA

Molecular Weight: 59 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MDPFPDLYATPGDSLDFLEHSLQPQRDWKEEGQDAWERIERFFREQCFRDELLLDQEVRIKVVK
GGSSGKGTTLNHRSDQDMILFLSCFSSFEQARNREVVISFIKKRLIHCSRSLAYNIIVLTHREGKRAP
RSLTLKVQSRKTDDIWMIDILPAYDALGPISRDSKPAPAIYETLIRSKGYPGDFSPSFTELQRHFVKTR
PVKLNLLRLVKFWYLQCLRRKYGRGAVLPSKYALELLTIYAWEMGTSSDSFNLDEGFVAVMELLV
NYRDICIYWTKYNNFQNEVVRNFLKKQLKGDRPIILDPAIPTNNLGRKKGWEQVAAEAAFCLLQVCC
TTVGPSEWRNVQRARDVQVRVKQTGTVDWTLWTNPYSPIRKMKAEIRREKNFGGELRISFQEPGG
ERQLLSSRKTLDYGFISKVNIQVLETFPPEILVFVKYPGGQSKPFTIDPDDTILDLKEKIEDAGGPCAE
DQVLLLDDEELEDDESLEKEIKDCDTIILIRVID

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 2'-5'-oligoadenylate synthase-like protein 2 (EC 2.7.7.84) (54 kDa 2'-5'-oligoadenylate synthase-like protein) (p54 OASL) (M1204) 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: Interferon-induced, dsRNA-activated antiviral enzyme which plays a critical role in cellular innate antiviral response. Catalyzes the formation of 2'-5'-oligoadenylates (2-5A) from polymerization of ATP which then bind to the inactive monomeric form of ribonuclease L (RNase L) leading to its dimerization and subsequent activation. Activation of RNase L leads to degradation of cellular as well as viral RNA, resulting in the inhibition of protein synthesis, thus terminating viral replication. Can mediate the antiviral effect via the classical RNase L-dependent pathway or an alternative antiviral pathway independent of RNase L.

Subcellular Localization: N/A

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.