

Recombinant Mouse OAS1B Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51627

Size: 10ug, 100ug

Protein Name: Inactive 2'-5'-oligoadenylate synthase 1B ((2-5')oligo(A) synthase 1B) (2-5A synthase 1B) (2'-5'-oligoadenylate synthase-like protein 1)

Synonym: Oas1b, Flv, Oias2

UniProt ID: Q60856

UniProt Link: www.uniprot.org/uniprotkb/Q60856/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 376 AA

Molecular Weight: 44 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEQDLRSIPASKLDFKFIENHLPDTSFCADLREVIDALCALLKDRSFRGPVRRMRASKGVKGKGTTLK
GRSDADLVVFLNNLT SFEDQLNQGGVLIKEIKKQLCEVQHERRCGVKFEVHSLRSPNSRALSFKLSA
PDLLKEVKFDVLPAYDLLDHLNLLKPNQQFYANLISGRTPPGKEGKLSICFMGLRKYFLNCRPTKLK
RLIRLVTHWYQLCKEKLGDPLPPQYALELLTVYAWEYGSRVTKFNTAQGFRTVLELVTKYKQLQIYW
TVYYDFRHQEVSEYLHQQLKKDRPVILDPADPTRNIAGLNPKDWRRRLAGEAAAWLQYPCFKYRDGS
SVCSWEVPTEVGVPKMYLLCRIFWLLFWSLFHFIFGKTSSG

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 Inactive 2'-5'-oligoadenylate synthase 1B ((2'-5')oligo(A) synthase 1B) (2-5A synthase 1B) (2'-5'-oligoadenylate synthase-like protein 1) 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: Does not have 2'-5'-OAS activity, but can bind double-stranded RNA (PubMed:12396720, PubMed:27663720). The full-length protein displays antiviral activity against flaviviruses such as west Nile virus (WNV) via an alternative antiviral pathway independent of RNase L (PubMed:12080145, PubMed:16371364, PubMed:17904183, PubMed:27663720). The truncated form of the protein lacks antiviral activity (PubMed:12080145, PubMed:16371364, PubMed:17904183).

Subcellular Localization: Endoplasmic reticulum membrane ; Single-pass type IV membrane protein .

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.