

Recombinant Rat CRBA1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52281

Size: 10ug, 100ug

Protein Name: Beta-crystallin A3 [Cleaved into: Beta-crystallin A3, isoform A1, Delta4 form; Beta-crystallin A3, isoform A1, Delta7 form; Beta-crystallin A3, isoform A1, Delta8 form]

Synonym: Cryba1

UniProt ID: P14881

UniProt Link: www.uniprot.org/uniprotkb/P14881/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 215 AA

Molecular Weight: 25 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

METQTVQRELETLPPTKMAQTNPMPSMGPWKITYDQENFQGKRMEFTSSCPNVSERSFDNVRS
LKVECGAWIGYEHTSFCGQQFILERGEYPRWDAWSGSNAYHIERLMSFRPICSANHKESKITIFEKE
NFIGRQWEICDDYPSLQAMGWFNNEVGSMKIQCAGWVCYQYPGYRGYQYILECDHHGGDYKHWR
EWGTHAQT SQIQSIRRIQQ

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 Beta-crystallin A3 [Cleaved into: Beta-crystallin A3, isoform A1, Delta4 form; Beta-crystallin A3, isoform A1, Delta7 form; Beta-crystallin A3, isoform A1, Delta8 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: Crystallins are the dominant structural components of the vertebrate eye lens.

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.