

# Recombinant Mouse CD7 Protein

**For Research Use Only**

## 1. Basic Product Information

Catalog No.: REP52044

Size: 10ug, 100ug

Protein Name: T-cell antigen CD7 (CD antigen CD7)

Synonym: Cd7

UniProt ID: P50283

UniProt Link: [www.uniprot.org/uniprotkb/P50283/entry](http://www.uniprot.org/uniprotkb/P50283/entry)

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 210 AA

Molecular Weight: 23 KD

Protein Tag: C-terminal His6

## 2. Amino Acid Sequence

MTQQAVLALLLTLAGILPGPLDAQDVHQSPRLTIASEGDSVNITCSTRGHLEGILMKKIWPQAYNVIYF  
EDRQEPTVDRTFSGRINFSGSQKNLTITISLQLADTGDYTCEAVRKVSARGLFTTVVKEKSSQEAY  
RSQEPLQTSFSFPAAIAVGFFFTGLLLGVVCSMLRKIQIKKLCASGIKESPCVVYEDMSYSNRKTPCIP  
NQYQ

## 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 T-cell antigen CD7 (CD antigen CD7) 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:** Transmembrane glycoprotein expressed by T-cells and natural killer (NK) cells and their precursors. Plays a costimulatory role in T-cell activation upon binding to its ligand K12/SECTM1. In turn, mediates the production of cytokines such as IL-2. On resting NK-cells, CD7 activation results in a significant induction of gamma-interferon levels.

**Subcellular Localization:** Membrane; Single-pass type I 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.