

Recombinant Human ADA2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50014

Size: 10ug, 100ug

Protein Name: Adenosine deaminase 2 (EC 3.5.4.4) (Cat eye syndrome critical region protein 1)

Synonym: ADA2, ADGF, CECR1, IDGFL

UniProt ID: Q9NZK5

UniProt Link: www.uniprot.org/uniprotkb/Q9NZK5/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 511 AA

Molecular Weight: 59 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLVDGPSPALCFLLLAVAMSFFGSALSIDETRAHLLLKEKMMRLGGRLVLNTKEELANERLMTLKI
AEMKEAMRTLIFPPSMHFFQAKHLIERSQVFNILRMMPKGAALHLHDIGIVTMDWLVRNVITYRPHCHI
CFTPRGIMQFRFAHPTPRPSEKCSKWILLEDYRKRQVNVTEFDDSLRNFTLVTQHPEVIYTNQNVV
WSKFETIFFTISGLIHYAPVFRDYVFRSMQEFYEDNVLYMEIRARLLPVYELSGEHHDEEWSVKTYQE
VAQKFVETHPEFIGIKIYSDHRSKDVAVIAESIRMAMGLRIKFPTVVAGFDLVGHEDTGHSLHDYKEA
LMIPAKDGVKLPYFFHAGETDWQGTSDRNILDALMLNTTRIGHGFALSKHPAVRTYSWKKDPIEVC
PISNQVLKLVSDLRNHPVATLMATGHPMVISSDDPAMFGAKGLSYDFYEVFMGIGGMKADLRTLKQL
AMNSIKYSTLLESEKNTFMEIWKKRWDFKFIADVATK

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 Adenosine deaminase 2 (EC 3.5.4.4) (Cat eye syndrome critical region 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: Adenosine deaminase that may contribute to the degradation of extracellular adenosine, a signaling molecule that controls a variety of cellular responses. Requires elevated adenosine levels for optimal enzyme activity. Binds to cell surfaces via proteoglycans and may play a role in the regulation of cell proliferation and differentiation, independently of its enzyme activity.

Subcellular Localization: Secreted .

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.