

Recombinant Mouse A1AT1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51243

Size: 10ug, 100ug

Protein Name: Alpha-1-antitrypsin 1-1 (AAT) (Alpha-1 protease inhibitor 1) (Alpha-1-antiproteinase) (Serine protease inhibitor 1-1) (Serine protease inhibitor A1a) (Serpina A1a)

Synonym: Serpina1a, Dom1, Spi1-1

UniProt ID: P07758

UniProt Link: www.uniprot.org/uniprotkb/P07758/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 413 AA

Molecular Weight: 46 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MTSPISWGLLLLAGLCCLVPSFLAEDVQETDTSQKDQSPASHEIATNLGDF AISLYREL VHQSNTSNIF
FSPVSIATAFAMLSLGSGDTHQTILEGLQFNLTQTSEADIHKS FQHLLQTLNRPDSELQLSTGNGLF
VNNDLKLVEKFLEEAKNHYQAEVFSVNFAESEEAKKVINDFVEKGTQGGKIAEAVKKLDQDTV FALANY
ILFKGKWKPPDPENTEEAEFHVDESTTVKVPMMTLSGMLHVHHCSTLSSWVLLMDYAGNATAVFL
LPDDGKMQLHLEQTL SKELISKFLLNRRRRLAQIHFPRLSISGEYNLKTLMSP LGITRIFNNGADLSGITE
ENAPLKLSQAVHKAVLTIDETGTEAAAVTVLQMVPMSMPPI LRFDHPFLFIIFEEHTQSPIFLGKV VDP
THK

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 Alpha-1-antitrypsin 1-1 (AAT) (Alpha-1 protease inhibitor 1) (Alpha-1-antiproteinase) (Serine protease inhibitor 1-1) (Serine protease inhibitor A1a) (Serpine A1a) 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: Inhibitor of serine proteases. Its primary target is elastase, but it also has a moderate affinity for plasmin and thrombin.

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.