

P91697Mu01
Alpha-1-antitrypsin 1-1(Serpina1a)
Organism: Mus musculus (Mouse)
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

1th Edition (Revised in February, 2012)

[DESCRIPTION]

Protein Names: Alpha-1-antitrypsin 1-1

Gene Names: Serpina1a

Size: 100µg

Source: Recombinant

Expression Host: *E. coli*

Function: Inhibitor of serine proteases. Its primary target is elastase, but it also has a moderate affinity for plasmin and thrombin.

Subcellular Location: Secreted

[PROPERTIES]

Residues: Glu25~Lys413 (Accession # Q7Z4T9), with a N-terminal His-tag.

Grade & Purity: >97%, 45.03 kDa as determined by SDS-PAGE reducing conditions.

Form & Buffer: Supplied as lyophilized form in PBS, pH 7.4.

Endotoxin Level: <1.0 EU per 1µg(determined by the LAL method).

Applications: SDS-PAGE; WB; ELISA;IP.

(May be suitable for use in other assays to be determined by the end user.)

Predicted Molecular Mass: 45.03 kDa

[PREPARATION]

Reconstitute in PBS.

[STORAGE AND STABILITY]

Storage: Store at 4°C for short term storage (1-2 weeks). Aliquot and store at -20°C or -80°C for long term storage. Avoid repeated freeze/thaw cycles.

Valid period: 12 months stored at -80°C.

[BACKGROUND]

The target protein is fused with a His-tag and its sequence is listed below. The first Met is an initiator amino acid. Moreover, Gly and Ser are added to improve the flexibility of N-terminus at both ends of the His-tag, which will increase the chelating ability of the tag to Ni-Sepharose during purification.

MGHHHHHHSSEF-EDVQET DTSQKDQSPA SHEIATNLGD FAISLYRELV HQSNTSNIFF SPVSIATAFA
MLSLGSKGDT HTQILEGLQF NLTQTSEADI HKSFQHLLQT LNRPDSELQL STGNGLFVNN DLKLVEKFLE
EAKNHYQAEV FSVNFAESEE AKKVINDFVE KGTQGKIAEA VKKLDQDQTFV ALANYILFKG KWKKPFDPEN
TEEAFFHVDE STTVKVPMMT LSGMLHVHHC STLSSWVLLM DYAGNATAVF LLPDDGKMQH LEQTLSEKELI
SKFLLNRRRR LAQIHFPRLS ISGEYNLCTL MSPLGITRIF NNGADLSGIT EENAPLKLSQ AVHKAVLTID
ETGTEAAAVT VLQMVPMSMP PILRFDHPFL FIIFEEHTQS PIFLGKVVDV THK

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