

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: 100 μ g

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 1 μ g(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.

MGHHHHHSGSEF-EDVQET DTSQKDQSPA SHEIATNLGD FAISLYRELV HQSNTSNIFF SPVSIATAFA
MLSLGSKGDT HTQILEGLQF NLTQTSEADI HKSFQHLLQT LNRPDSELQL STGNGLFVNN DLKLVEKFLE
EAKNHYQAEV FSVNFAESEE AKKVINDFVE KGTQGKIAEA VKKLDQDTV F ALANYILFKG KWKKPFDPEN
TEEA EFHVDE STTVKVPMMT LSGMLHVHHC STLSSWVLLM DYAGNATAVF LLPDDGKMQH LEQTL SKELI
SKFLLNRRRR LAQIHFPRLS ISGEYNLKTL MSP LGITRIF NNGADLSGIT EENAPLKLSQ AVHKAVLTID
ETGTEAAAVT VLQMVPMSMP PILRFDHPFL FIIFEEHTQS PIFLGKV VDP THK

[REFERENCES]

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