

ADAM12 Protein, Mouse (Baculovirus, His-Myc)

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| Cat. No.: | HY-P72061 |
| Synonyms: | Adam12; MlnaDisintegrin and metalloproteinase domain-containing protein 12; ADAM 12; EC 3.4.24.-; Meltrin-alpha |
| Species: | Mouse |
| Source: | Sf9 insect cells |
| Accession: | Q61824 (E206-G706) |
| Gene ID: | 11489 |
| Molecular Weight: | Approximately 58.4 kDa |

PROPERTIES

AA Sequence

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E T L K M T K Y V E   L V I V A D N R E F   Q R Q G K D L E K V   K Q R L I E I A N H
V D K F Y R P L N I   R I V L V G V E V W   N D I D K C S I S Q   D P F T S L H E F L
D W R K I K L L P R   K S H D N A Q L I S   G V Y F Q G T T I G   M A P I M S M C T A
E Q S G G V V M D H   S D S P L G A A V T   L A H E L G H N F G   M N H D T L E R G C
S C R M A A E K G G   C I M N P S T G F P   F P M V F S S C S R   K D L E A S L E K G
M G M C L F N L P E   V K Q A F G G R K C   G N G Y V E E G E E   C D C G E P E E C T
N R C C N A T T C T   L K P D A V C A H G   Q C C E D C Q L K P   P G T A C R G S S N
S C D L P E F C T G   T A P H C P A N V Y   L H D G H P C Q G V   D G Y C Y N G I C Q
T H E Q Q C V T L W   G P G A K P A P G I   C F E R V N S A G D   P Y G N C G K D S K
S A F A K C E L R D   A K C G K I Q C Q G   G A S R P V I G T N   A V S I E T N I P Q
Q E G G R I L C R G   T H V Y L G D D M P   D P G L V L A G T K   C A E G K I C L N R
R C Q N I S V F G V   H K C A M Q C H G R   G V C N N R K N C H   C E A H W A P P F C
D K F G F G G S T D   S G P I R Q A D N Q   G

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Biological Activity The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm solution of Tris-based buffer, 50% Glycerol.

Endotoxin Level <1 EU/µg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O.

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

ADAM12 (a disintegrin and metalloprotease) is upregulated in breast, prostate, ovarian, skin, stomach, lung and brain cancers. Human ADAM12 can be expressed as two alternately spliced variants: the membrane-associated ADAM12-L, and the shorter secreted ADAM12-S. Both isoforms are composed of pro-, metalloprotease, disintegrin and cysteine-rich domains respectively, and a non-homologous cytoplasmic tail. ADAM12-L has a transmembrane region. ADAM12 contributes to tumor progression and metastasis in both orthotopic and transgenic tumor models by promoting tumor cell proliferation, migration and invasion, inducing tumor cell resistance to apoptosis, promoting endocrine resistance and enhancing malignant tumor-stroma crosstalk^{[1][2]}.

REFERENCES

- [1]. Roopali Roy, et al. ADAM12 Is a Novel Regulator of Tumor Angiogenesis via STAT3 Signaling. *Mol Cancer Res.* 2017 Nov;15(11):1608-1622.
- [2]. Saioa Mendaza, et al. ADAM12 is A Potential Therapeutic Target Regulated by Hypomethylation in Triple-Negative Breast Cancer. *Int J Mol Sci.* 2020 Jan 30;21(3):903.
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Caution: Product has not been fully validated for medical applications. For research use only.

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