

Recombinant human Meprin A subunit alpha/MEP1A protein

Catalog Number: ATGP3425

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

22-601aa

UniProt No.

Q16819

NCBI Accession No.

NP_005579

Alternative Names

Meprin A subunit alpha, MEP1A, PPHA, Endopeptidase-2, N-benzoyl-L-tyrosyl-P-amino-benzoic acid hydrolase subunit alpha, PABA peptide hydrolase, PPH alpha

PRODUCT SPECIFICATION

Molecular Weight

67.4 kDa (589aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 85% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

MEP1A, also known as meprin A subunit alpha, is a single-pass type I membrane protein which belongs to the peptidase M12A family. It abundantly expressed in kidney and intestinal epithelial cells, are secreted into the urinary tract and intestinal lumen, and are found in leukocytes and cancer cells under certain conditions. It is

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capable of proteolytically degrading extracellular matrix proteins, proteolytically processing bioactive proteins, and play a role in inflammatory processes. Recombinant human MEP1A, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

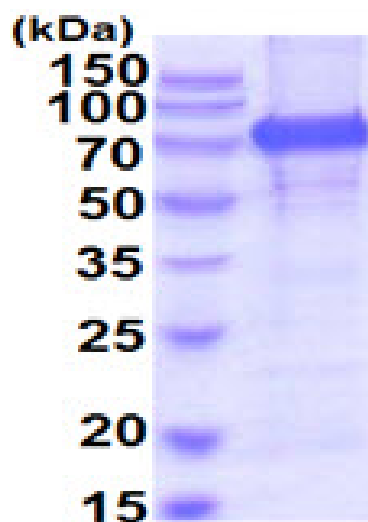
ADPVPIKYLP EENVHDADFG EQKDISEINL AAGLDLFQGD ILLQKSRNGL RDPNTRWTFP IPYILADNLG LNAKGAILYA
FEMFRLKSCV DFKPYEGESS YIIFQQFDGC WSEVGDQHVQ QNISIGQGCA YKAIIEHEIL HALGFYHEQS RTDRDDYVNI
WWDQILSGYQ HNFDTYDDSL ITDLNTPYDY ESLMHYQPFS FNKNASVPTI TAKIPEFNSI IGQRLDFSAI DLERLNRMYN
CTTHTLLDH CTFEKANICG MIQGTRDDTD WAHQDSAQAG EVDHTLLGQC TGAGYFMQFS TSSGSAEEAA LLESRIYPK
RKQQCLQFFY KMTGSPSRL VVWVRRDDST GNVRLVKVQ TFQGDDHWNW KIAHVVLKEE QKFRYLFQGT
KGD PQNSTGG IYLDITLTPCPTGVWTV RNFSQVLENT SKGDKLQSPR FYNSEGYGFG VTLYPNSRES SGYLRALAFHV
CSGENDAILE WPVENRQVII TILDQEPDVR NRMSSSMVFT TSKSHTSPA I NDTVIWDRPS RVGTYHTDCN CFRSIDLGWS
GFISHQMLKR RSFLKNDDLI IFVDFEDITH LSQH HHHHHH

General References

Geurts N., et al. (2012) FEBS Lett. 586:4264-4269.
Minder P., et al. (2012) J Biol Chem. 287:35201-35211.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)