

Recombinant human aminopeptidase puromycin sensitive protein, His tagged

Cat. No. NPEPPS-07H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human NPEPPS (1-919aa), fused to His-tag at C-terminus, was expressed in HEK293 and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	1-919aa
Description	This gene encodes the puromycin-sensitive aminopeptidase, a zinc metallopeptidase which hydrolyzes amino acids from the N-terminus of its substrate. The protein has been localized to both the cytoplasm and to cellular membranes. This enzyme degrades enkaphalins in the brain, and studies in mouse suggest that it is involved in proteolytic events regulating the cell cycle.
Tag	C-His
Form	Liquid
Bio-activity	Specific activity is > 800 pmol/min/μg, and is defined as the amount of enzyme that cleaves 1 pmole of H-Leu-AMC per minute at pH7.0 at 37 centigrade.
Molecular Mass	104 kDa

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AA Sequence

MWLAAPSLARRLLFLGPPPPPLLLLVSRRRRRLHSLGLAAMPEKRPFERLPAD
 VSPINYSLCLKPDLLDFTFEGKLEAAQVRQATNQIVMNCADIDIITASYAPEGDEEIH
 ATGFNYQNEDEKVTLSFPSTLQTGTGTLKIDFVGELNDKMKGFYRSKYTTSPSGEVRY
 AAVTQFEATDARRAFPCWDEPAIKATFDISLVVPKDRVALSNMVIDRKPYPDENL
 VEVKFARTPVMSTYLVAFVVGEDFVETRSDGVCVRVYTPVGKAEQGKFALEVAA
 KTLFPYKDYFNVPYPLPKIDLIAIDFAAGAMENGLVITYRETALLIDPKNSCSSSRQW
 VALVVGHELAHQWFGNLVTMEWWTHLWLNFGFASWIEYLCVDHCFPEYDIWTQFV
 SADYTRAQELDALDNSHPIEVSVGHPSEVDEIFDAISYSGASVIRMLHDYIGDKDFK
 KGMNMYLTKFQQKNAATEDLWESLENASGKPIAAVMNTWTKQMGFPLIYVEAEQV
 EDDRLLRLSQQKFCAGGSYVGEDCPQWMVPITISTSEDPNQAKLKILMDKPEMNVV
 LKNVKPDQWVKLNLGTVGFYRTQYSSAMLESLLPGIRDLSLPPVDRLGLQNDLFLSA
 RAGIISTVEVLKVMFAFVNEPNYTVWSDLSCLNLGILSTLLSHTDFYEEIQEFVKDVFSP
 IGERLGWDPKPGEGHLDALLRGLVLGKLGKAGHKATLEEARRRFKDHVEGKQILSA
 DLRSVPYLTVLKHGDGTTLDIMLKLHKQADMQEEKNRIERVLGATLLPDLIQKVLTF
 LSEEVRPQDTVSVIGGVAGGSKHGRKAAWKFIKDNWEELYNRYQGGFLISRLIKLSV
 EGFAVDKMAGEVKAFFESHAPSARTIQCCENILLNAAWLKRDAESIHQYLLQRK
 ASPPTV

Endotoxin

< 1 EU/μg of protein (determined by LAL method)

Purity

> 85% by SDS-PAGE

Applications

SDS-PAGE, Enzyme Activity

Notes

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

Storage

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

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Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol
Concentration	0.25 mg/mL (determined by Absorbance at 280nm)
References	1. Kudo LC, et al. (2011) Hum Mol Genet. 20:1820-1833. 2. Jones RT, et al. (2024) Cancer Res. 84:1699-1718. 3. Lenskaya V, et al. (2024) J Cutan Pathol. 51:419-423.

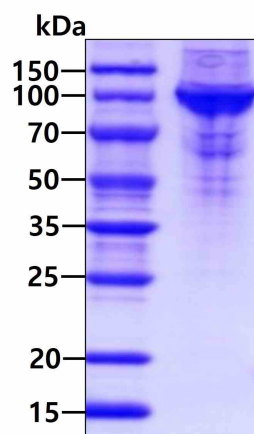
GENE INFORMATION

Gene Name	NPEPPS aminopeptidase puromycin sensitive [Homo sapiens (human)]
Official Symbol	NPEPPS
Synonyms	NPEPPS; aminopeptidase puromycin sensitive; PSA; AAP-S; MP100; puromycin-sensitive aminopeptidase; cytosol alanyl aminopeptidase; metalloproteinase MP100; EC 3.4.11.14
Gene ID	9520
mRNA Refseq	NM_006310
Protein Refseq	NP_006301
MIM	606793
UniProt ID	P55786

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SDS-PAGE

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

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