

Datasheet for ABIN7596295
NPEPPS Protein (AA 1-919) (His tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	NPEPPS
Protein Characteristics:	AA 1-919
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This NPEPPS protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	MWLAAAAPSL ARRLFLGPP PPPLLLLVFS RSSRRRLHSL GLAAMPEKRP FERLPADVSP INYSCLKPD LLDFTFEGKL EAAQVRQAT NQIVMNCADI DIITASYAPE GDEEIHATGF NYQNEDEKVT LSFPSTLQTG TGTLKIDFVG ELNDKMKGFY RSKYTTPSGE VRYAAVTQFE ATDARRAFPC WDEPAIKATF DISLVVPKDR VALSNMNVID RKPYPDDENL VEVKFARTPV MSTYLVAFFV GEYDFVETRS KDGVCVRVYT PVGKAEQGKF ALEVAAKTLP FYKDYFNVFY PLPKIDLIAI ADFAAGAMEN GLVTYRETA LLIDPKNSCS SSRQWVALVV GHELAHQWFG NLVTMEWWTH LWLNEGFASW IEYLCVDHCF PEYDIWTQFV SADYTRAQEL DALDNSHP VSVGHPSEVD EIFDAISYSK GASVIRMLHD YIGDKDFKKG MNMYLTKFQQ KNAATEDLWE SLENASGKPI AAVMNTWTKQ MGFPLIYVEA EQVEDDRLLR LSQKKFCAGG SYVGEDCPQW MVPITISTSE DPNQAKLKIL MDKPEMNVVL KNVKPDQWVK LNLGTVGFYR TQYSSAMLES LLPGIRDLSL PPVDRLGLQN DLFLSLARAGI ISTVEVLKVM EAFVNEPNYT VWSDLSCNLS
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Product Details

ILSTLLSHTD FYEEIQEFVK DVFSPIGERL GWDPKPGEGH LDALLRGLVL GKLKGAGHKA
TLEEARRRFK DHVEGKQILS ADLRSPVYLT VLKHGDGTTL DIMLKLHKQA DMQEEKNRIE
RVLGATLLPD LIQKVLTfAL SEEVRPQDTV SVIGGVAGGS KHGRKAAWKf IKDNWEELYN
RYQGGFLISR LIKLSVEGFA VDKMAGEVKA FFESHpAPSA ERTIQCCEN ILLNAAWLKR
DAESIHQYLL QRKASPPTV

Purity:	> 85% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Specific activity is > 800 pmol/min/ug, and is defined as the amount of enzyme that cleaves 1 pmole of H-Leu-AMC per minute at pH7.0 at 37°C.

Target Details

Target:	NPEPPS
Alternative Name:	NPEPPS (NPEPPS Products)
Background:	NPEPPS, also known as PSA, is a zinc metallopeptidase with broad substrate specificity for several peptides. It hydrolyzes N-terminal amino acids from its substrates. This protein is expressed in most tissues as a cytoplasmic protein, but a membrane-associated form has been identified in the brain. This protein is involved in proteolytic events which is essential for cell growth and viability. It also may acts as regulator of neuropeptide activity. It is used as a biomarker to detect damage to the kidneys, and that may be used to help diagnose certain kidney disorders. It is found at high levels in the urine when there are kidney problems. It is also known to degrade the tau protein, which accumulates and polymerizes in some neurodegenerative diseases. Recombinant human NPEPPS, fused to His-tag at C-terminus, was expressed in HEK293 and purified by using conventional chromatography techniques.
Molecular Weight:	104kDa (925aa)
NCBI Accession:	NP_006301

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
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Handling

Concentration:	0.25 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.