

Aminopeptidase P2 Protein, Human (HEK293, His)

Cat. No.:	HY-P7499
Synonyms:	rHuAminopeptidase P2, His; XPNPEP2; Aminopeptidase P2
Species:	Human
Source:	HEK293
Accession:	O43895 (H22-A650)
Gene ID:	7512
Molecular Weight:	Approximately 78.0 kDa

PROPERTIES

AA Sequence

HTKPVDLGGQ	DVRNCSTNPP	YLPVTVVNTT	MSLTALRQQM
QTQNLSAYII	PGTDAHMNEY	IGQHDERRAW	ITGFTGSAGT
AVVTMKKAAV	WTDSTRYWTQA	ERQMDCNWEL	HKEVGTTPIV
TWLLTEIPAG	GRVGFDPFLL	SIDTWESYDL	ALQGSNRQLV
SITTNLVDLV	WGSERPPVPN	QPIYALQEAF	TGSTWQEKVS
GVRSQMQKHQ	KVPTAVLLSA	LEETAWLFNL	RASDIPYNPF
FYSYTLTLD	SIRLFANKSR	FSSETLSYLN	SSCTGPMCVQ
IEDYSQVRDS	IQAYSLGDVR	IWIGTSYTM	GIYEMIPKEK
LVTDTYSPVM	MTKAVKNSKE	QALLKASHVR	DAVAVIRYLV
WLEKNVPKGT	VDEFSGAEIV	DKFRGEEQFS	SGPSFETISA
SGLNAALAHY	SPTKELNRKL	SSDEMYLLDS	GGQYWDGTTD
ITRTVHWGTP	SAFQKEAYTR	VLIGNIDLSR	LIFPAATSGR
MVEAFARRAL	WDAGLNYGHG	TGHGIGNFLC	VHEWPVGFQS
NNIAMA KGMF	TSIEPGYYKD	GEFGIRLEDV	ALVVEAKTKY
PGSYLTFE VV	SFVPYDRNLI	DVSLLSPEHL	QYLNRY YQTI
REKVGPELQR	RQLLEEF EWL	QQHTEPLAAH	HHHHH

Biological Activity

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

Appearance

Solution.

Formulation

Supplied as a 0.2 µm filter solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

N/A

Storage & Stability

Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

Shipping

Shipping with dry ice.

DESCRIPTION

Background

Aminopeptidase P2 (XPNPEP2; APP2) is membranebound. Aminopeptidase P2 is a receptor for TMTP1 tumor-homing peptide. APP2 has a much more restricted substrate specificity; it fails to hydrolyze XPro dipeptides and cleaves X-Pro-Y-peptides poorly when X is Pro or Gly or when Y is an amino acid with a bulky side chain^{[1][2]}.

REFERENCES

[1]. Erşahin C, et al. Aminopeptidase P isozyme expression in human tissues and peripheral blood mononuclear cell fractions. Arch Biochem Biophys. 2005 Mar 15;435(2):303-10.

[2]. Li F, et al. XPNPEP2 is associated with lymph node metastasis in prostate cancer patients. Sci Rep. 2019 Jul 11;9(1):10078.

Caution: Product has not been fully validated for medical applications. For research use only.

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