

XPNPEP3 Protein, Human (His)

Cat. No.:	HY-P71435
Synonyms:	Probable Xaa-Pro Aminopeptidase 3; X-Pro Aminopeptidase 3; Aminopeptidase P3; APP3; XPNPEP3
Species:	Human
Source:	E. coli
Accession:	Q9NQH7 (M1-S507)
Gene ID:	63929
Molecular Weight:	Approximately 65.0 kDa

PROPERTIES

AA Sequence

MPWLLSAPKL	VPAVANVRGL	SGCMLCSQRR	YSLQPVPERR
IPNRYLGQPS	PFTHPHLLRP	GEVTPGLSQV	EYALRRHKLM
SLIQKEAQQQ	SGTDQTVVVL	SNPTYYSND	IPYTFHQDNN
FLYLCGFQEP	DSLVLVLSLP	GKQLPSHKA I	LFVPRRDPSR
ELWDGPRSGT	DGAIALTGVD	EAYTLEEFQH	LLPKMKAETN
MVWYDWMRPS	HAQLHSDYMQ	PLTEAKAKSK	NKVRGVQQL I
QRLRLIKSPA	EIERMQIAGK	LTSQAFIETM	FTSKAPVEEA
FLYAKFEFEC	RARGADILAY	PPVVAGGNRS	NTLHYVKNNQ
LIKDGEMVLL	DGGCESSCYV	SDITRTWPVN	GRFTAPQAEL
YEAVLEIQRD	CLALCFPGTS	LENIYSMMLT	LIGQKLDLGL
IMKNIKENNA	FKAARKYCPH	HVGHYLGMDV	HDTPDMPRSL
PLQPGMVITI	EPGIYIPEDD	KDAPEKFRGL	GVRIEDDVVV
TQDSPLILSA	DCPKEMNDIE	QICSQAS	

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 filtered solution of 25 mM Tris, 1 mM DTT, pH 7.3.

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

The XPNPEP3 protein serves a crucial role in peptide processing by catalyzing the removal of a penultimate prolyl residue from the N-termini of peptides, exemplified by substrates like Leu-Pro-Ala. Additionally, it exhibits low activity towards peptides featuring Ala or Ser at the P1 position. Beyond its peptidase function, XPNPEP3 demonstrates an intriguing role as it promotes TNFRSF1B-mediated phosphorylation of MAPK8/JNK1 and MAPK9/JNK2, indicating a potential function as an adapter protein for TNFRSF1B. Notably, this effect is independent of XPNPEP3's peptidase activity, suggesting a dual role in cellular signaling pathways. Furthermore, XPNPEP3 may play a role in inhibiting apoptotic cell death induced via TNF-TNFRSF1B signaling, underlining its involvement in cellular processes beyond peptide cleavage.

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

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