

[Go to Product page](#)

Datasheet for ABIN7198721 XPNPEP2 Protein (His tag)

Overview

Quantity:	50 µg
Target:	XPNPEP2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This XPNPEP2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human XPNPEP2 Protein (His Tag)(Active)
Sequence:	Met 1-Ala 650
Characteristics:	A DNA sequence encoding the human XPNPEP2 (O43895) (Met 1-Ala 650) without the pro peptide was expressed, with a polyhistidine tag at the C-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave the fluorogenic peptide substrate, H-Lys(2-Aminobenzoyl)Pro-Pro-pNitroanilide(K(Abz)PP-pNA). The specific activity is > 300 pmoles/min/µg.

Target Details

Target:	XPNPEP2
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Target Details

Alternative Name:	XPNPEP2 (XPNPEP2 Products)
Background:	<p>Background: Aminopeptidase P (APP) is a hydrolase specific for N-terminal imido bonds; which are common to several collagen degradation products; neuropeptides; vasoactive peptides; and cytokines. A membrane-bound and soluble form of this enzyme (XPNPEP2) have been identified as products of two separate genes. XPNPEP2; the X-linked gene that encodes membranous aminopeptidase P (APP); has been reported to associate with APP activity. The membrane aminopeptidase P (XPNPEP2) is largely limited in distribution to endothelia and brush border epithelia. APP and XPNPEP2 contain homologous blocks of sequence common to members of the "pita bread-fold" protein family; of which Escherichia coli methionine aminopeptidase is the prototype. The C-2399A variant in XPNPEP2 is associated with reduced APP activity and a higher incidence of AE-ACEi. XPNPEP2 mRNA was detected in fibroblasts that carry the translocation; suggesting that this gene at least partially escapes X inactivation. XPNPEP2 is a candidate gene for premature ovarian failure (POF).</p> <p>Synonym: Xaa-Pro Aminopeptidase 2; Aminoacylproline Aminopeptidase; Membrane-Bound Aminopeptidase P; Membrane-Bound APP; Membrane-Bound AmP; mAmP; X-Pro Aminopeptidase 2; XPNPEP2</p>
Molecular Weight:	72 kDa
UniProt:	O43895

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C, -20 °C, -80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>