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Datasheet for ABIN7198721
XPNPEP2 Protein (His tag)

Overview

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| 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

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| 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

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| Target: | XPNPEP2 |
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Target Details

Alternative Name: XPNPEP2 ([XPNPEP2 Products](#))

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).

Synonym: Xaa-Pro Aminopeptidase 2; Aminoacylproline Aminopeptidase; Membrane-Bound Aminopeptidase P; Membrane-Bound APP; Membrane-Bound AmP; mAmP; X-Pro Aminopeptidase 2; XPNPEP2

Molecular Weight: 72 kDa

UniProt: [043895](#)

Application Details

Restrictions: For Research Use only

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: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. 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.