Recombinant Human XPNPEP2 Protein (His Tag)

Catalog Number: PKSH030976

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

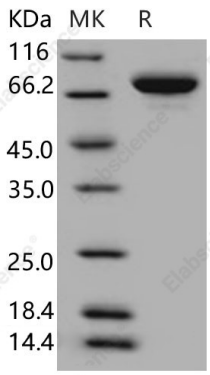
Description

Species	Human
Source	HEK293 Cells-derived Human XPNPEP2 protein Met 1-Ala 650, with an C-terminal His
Calculated MW	72.0 kDa
Accession	O43895
Bio-activity	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.

Properties

Purity	> 97 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 25 mM Tris, 150 mM NaCl, pH 7.5.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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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).

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