

## Product datasheet for **TP314837M**

### PGPEP1 (NM\_017712) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human pyroglutamyl-peptidase I (PGPEP1), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC214837 representing NM_017712 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MEQPRKAVVVTGFGPFGHEHTVNASWIAVQELEKLGSDVLDLHVYEIPVEYQTVQRLIPALWEKHSPQLV VHVGVS GMATTVTLEKCGHNKGYKGLDNCRCFCPSQCCVEDGPESIDSIIDMDAVCKRVTTGLDVSVTI SQDAGRYLCDFTYYTSLYQSHGRSAFVHVPPLGKPYNADQLGRALRAIIEMLDLLEQSEGKINYCHKH
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	23 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_060182</a>
Locus ID:	54858
UniProt ID:	<a href="#">Q9NXJ5</a>
RefSeq Size:	2239



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Cytogenetics: 19p13.11

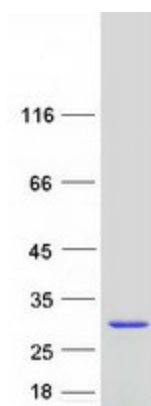
RefSeq ORF: 627

Synonyms: PAP-I; Pcp; PGI; PGP; PGP-I; PGPI

**Summary:** The gene encodes a cysteine protease and member of the peptidase C15 family of proteins. The encoded protein cleaves amino terminal pyroglutamate residues from protein substrates including thyrotropin-releasing hormone and other neuropeptides. Expression of this gene may be downregulated in colorectal cancer, while activity of the encoded protein may be negatively correlated with cancer progression in colorectal cancer patients. Activity of the encoded protease may also be altered in other disease states including in liver cirrhosis, which is associated with reduced protease activity, and in necrozoospermia, which is associated with elevated protease activity. [provided by RefSeq, Jul 2016]

**Protein Families:** Druggable Genome, Protease

### Product images:



Coomassie blue staining of purified PGPEP1 protein (Cat# [TP314837]). The protein was produced from HEK293T cells transfected with PGPEP1 cDNA clone (Cat# [RC214837]) using MegaTran 2.0 (Cat# [TT210002]).