

Recombinant Human PGA4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PGA4-1278H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PGA4 MS Standard C13 and N15-labeled recombinant protein (NP_001073276) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a protein precursor of the digestive enzyme pepsin, a member of the peptidase A1 family of endopeptidases. The encoded precursor is secreted by gastric chief cells and undergoes autocatalytic cleavage in acidic conditions to form the active enzyme, which functions in the digestion of dietary proteins. This gene is found in a cluster of related genes on chromosome 11, each of which encodes one of multiple pepsinogens. Pepsinogen levels in serum may serve as a biomarker for atrophic gastritis and gastric cancer.
Molecular Mass	42 kDa
AA Sequence	MKWLLLLGLVALSECIMYKVPLIRKKSLRRTLSEGLLKDFLKKHNLNPARKYFPQW EAPTLVDEQPLENYLDMEYFGTIGIGTPAQDFTVVFDTGSSNLWVPSVYCSSLACTN HNRFPNEDSSTYQSTSETVSITYGTGSMTGILGYDTVQVGGISDTNQIFGLSETEPG SFLYYAPFDGILGLAYPSISSSGATPVFDNIWNQGLVSQDLFSVYLSADDKSGSVVIF GGIDSSYYTGSLNWVPVTVEGYWQITVDSITMNGETIACAEGCQAIVDTGTSLLTGP TSPIANIQSDIGASENSDGDMMVSCSAISSLPDIVFTINGVQYPVPPSAYILQSEGSCIS

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	GFQGMNVPTESGELWILGDVFIRQYFTVFD RANNQVGLAPVATRTRPLEQKLISEED LAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	PGA4 pepsinogen A4 [Homo sapiens (human)]
Official Symbol	PGA4
Synonyms	PGA4; pepsinogen A4; pepsin A-4; pepsinogen 4, group I (pepsinogen A); pepsinogen-4; pregnancy-associated glycoprotein; EC 3.4.23.1
Gene ID	643847
mRNA Refseq	NM_001079808
Protein Refseq	NP_001073276
MIM	169720

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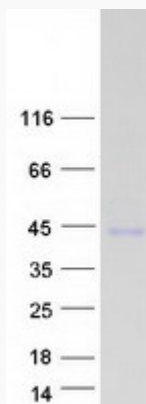
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UniProt ID

P0DJJ7

SDS-PAGE

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