

Product datasheet for PH301970

PEPD (NM_000285) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PEPD MS Standard C13 and N15-labeled recombinant protein (NP_000276)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201970
Predicted MW:	54.5 kDa
Protein Sequence:	>RC201970 protein sequence Red=Cloning site Green=Tags(s)

MAAATGPSFWLGNETLKVPLALFALNRQRLCERLRKNPAVQAGSIVVLQGGREETQRYCTDTGVLFRQESF
FHWAFGVTEPGCYGVIDVDTGKSTLFPRLPASHATWMGKIHSKEHFKEKYAVDDVQYVDEIASVLTSQK
PSVLLTLRGVNTDSGSVCREASFDGISKFEVNNTILHPEIVECRVFKTDMELVLRNTKISSEAHREVM
KAVKVGMEYELESLFEHYCYSRGGMRHSSYTCICGSGENSAVLHYGHAGAPNDRTIQNGDMCLFDMGGE
YYCFASDITCSFPANGKFTADQKAVYEAVLRSSRAVMGAMKPGVWWPDMHRLADRIHLEELAHMGILSGS
VDAMVQAHLGAVFMPHGLGHFLGIDVHDVGGYPEGVERIDEPGLRSLRTARHLQPGMVL TVEPGIYFIDH
LLDEALADPARASFLNREVLQFRFRGGVRIEEDVVVTDSGIELLTCVPRTVEEIEACMAGCDKAFTPFS
GPK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000276</u>
RefSeq Size:	2019
RefSeq ORF:	1479



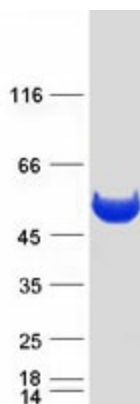
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Synonyms: PROLIDASE
Locus ID: 5184
UniProt ID: [P12955](#), [A0A140VJR2](#)
Cytogenetics: 19q13.11

Summary: This gene encodes a member of the peptidase family. The protein forms a homodimer that hydrolyzes dipeptides or tripeptides with C-terminal proline or hydroxyproline residues. The enzyme serves an important role in the recycling of proline, and may be rate limiting for the production of collagen. Mutations in this gene result in prolidase deficiency, which is characterized by the excretion of large amount of di- and tri-peptides containing proline. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]

Protein Families: Druggable Genome, Protease

Product images:



Coomassie blue staining of purified PEPD protein (Cat# [TP301970]). The protein was produced from HEK293T cells transfected with PEPD cDNA clone (Cat# [RC201970]) using MegaTran 2.0 (Cat# [TT210002]).