

## Product datasheet for PH318093

### Lactoperoxidase (LPO) (NM\_006151) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	LPO MS Standard C13 and N15-labeled recombinant protein (NP_006142)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218093
Predicted MW:	80.29 kDa
Protein Sequence:	>RC218093 representing NM_006151 Red=Cloning site Green=Tags(s)

MRVLLHLPALLASLILLQAAASTTRAQTRTSAISDTVVSQAKVQVNKAFLDSRTRLKTAMSETPTSRQL  
SEYLLKHAKGRTRTAIRNGQVWEESLKRLRQKASLTNVTDPPLDLTSLSLEVGC GAPAPVVRCDPCSPYRT  
ITGDCNNRRKPALGAANRALARWLP AEYEDGLSLPFGWTPGKTRNGFPLPLAREVSNKIVGYLNEEGVLD  
QNRSLLFMQWGQIVDHDLDFA PDTELGSSEYSKAQCDEYCIQGDNCFPIMFPPNDPKAGTQGKCMPPFRA  
GFVCPTPPYKSLAREQINALTSFLDASFVYSSEPSLASRLRNLSPLGLMAVNQEVS DHGLPYLPYDSKK  
PSPCEFINTTARVPCFLAGDSRASEHILLATSHTLFLREHNRLARELKR LNPQWDGEKLYQEARKILGAF  
VQIITFRDYLPILLGDHMQKWIPPYQGYSESVDPRISNVFTFAFRFGHLEVPSSMFRLDENYQPWGPEPE  
LPLHTLFFNTWRMVKDGIDPLVRGLLAKKSKLMKQNKMMTGELRNKLFQPTTHRIHGFDLAAINTQRCD  
HGQPGYNSWRAFCDLSQPQTLEELNTVLKSKMLAKKLLGLYGPDPNIDIWIGIAEPLVERGRVGPLLAC  
LLGKQFQQIRDGDRFWENPGVFTNEQKDSLQKMSFSRLVCDNTRITKVPRDPFWANSYPYDFVDCSAID  
KLDLSPWASVKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_006142</a>



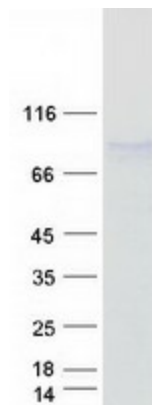
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RefSeq Size:	2918
RefSeq ORF:	2136
Synonyms:	SPO
Locus ID:	4025
UniProt ID:	<a href="#">P22079</a>
Cytogenetics:	17q22

**Summary:** This gene encodes a member of the peroxidase family of proteins. The encoded preproprotein is proteolytically processed to generate the mature enzyme. Following its secretion from salivary, mammary, and other mucosal glands, this enzyme catalyzes the generation of the antimicrobial substance hypothiocyanous acid. This gene is present in a gene cluster on chromosome 17. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]

**Protein Families:** Druggable Genome, Secreted Protein

### Product images:



Coomassie blue staining of purified LPO protein (Cat# [TP318093]). The protein was produced from HEK293T cells transfected with LPO cDNA clone (Cat# [RC218093]) using MegaTran 2.0 (Cat# [TT210002]).