

## Product datasheet for PH322624

### PON2 (NM\_000305) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PON2 MS Standard C13 and N15-labeled recombinant protein (NP_000296)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222624
Predicted MW:	39.2 kDa
Protein Sequence:	>RC222624 representing NM_000305 Red=Cloning site Green=Tags(s)
	<p>MGRLVAVGLLGIALLGERLLALRNRLKASREVESVDLPHCHLIKIEAGSEIDILPNGLAFFSVGLK            FPLHSFAPDKPGGILMMDLKEEKPRARELRISRGFDLASFNPHGISTFIDNDDTVYLFVYNHPEFKNTV            EIFKFEEAENSLHLKTKVHELLPSVNDITAVGPAHFYATNDHYFSDPFLKYLETYLNLHWANVVYYSPN            EVKVVAEGFDSANGINISPD DKYIYVADILAHEIHVLEKHTNMNLTQLKVELDLVDNLSIDPSSGDIW            VGCHPNGQKLFVYDPNPPSSEVLRIQNILSEKPTVTTVYANNGSVLQGSSVASVYDGKLLIGTLYHRAL            YCEL</p> <p>TRTRPLEQKLI SEEDLAANDILDYKDDDDKV</p>
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_000296</a>
RefSeq Size:	1669
RefSeq ORF:	1062
Locus ID:	5445
UniProt ID:	<a href="#">Q15165</a>



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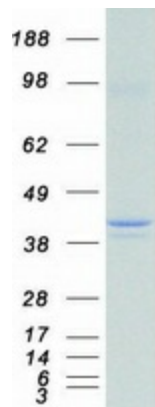
**Cytogenetics:** 7q21.3

**Summary:** This gene encodes a member of the paraoxonase gene family, which includes three known members located adjacent to each other on the long arm of chromosome 7. The encoded protein is ubiquitously expressed in human tissues, membrane-bound, and may act as a cellular antioxidant, protecting cells from oxidative stress. Hydrolytic activity against acylhomoserine lactones, important bacterial quorum-sensing mediators, suggests the encoded protein may also play a role in defense responses to pathogenic bacteria. Mutations in this gene may be associated with vascular disease and a number of quantitative phenotypes related to diabetes. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways

### Product images:



Coomassie blue staining of purified PON2 protein (Cat# [TP322624]). The protein was produced from HEK293T cells transfected with PON2 cDNA clone (Cat# [RC222624]) using MegaTran 2.0 (Cat# [TT210002]).