

PON3 Protein, Human (S50N, sf9, His)

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| Cat. No.: | HY-P74623 |
| Synonyms: | Serum paraoxonase/lactonase 3; PON3 |
| Species: | Human |
| Source: | Sf9 insect cells |
| Accession: | Q15166 (M1-L354) |
| Gene ID: | 5446 |
| Molecular Weight: | Approximately 45 kDa |

PROPERTIES

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| Appearance | Solution |
| Formulation | Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 8.0, 1 mM CaCl ₂ , 10% Glycerol, 0.1% DDM. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | N/A. |
| Storage & Stability | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| Shipping | Shipping with dry ice. |

DESCRIPTION

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| Background | PON3 displays low activity towards the organophosphate paraxon and aromatic carboxylic acid esters. Notably, it exhibits rapid hydrolysis of lactones, including statin prodrugs like lovastatin. Moreover, PON3 is capable of hydrolyzing aromatic lactones and 5- or 6-member ring lactones with aliphatic substituents, while it does not efficiently hydrolyze simple lactones or those with polar substituents. These substrate specificities highlight PON3's role in the metabolism of certain ester compounds and lactones, providing insights into its enzymatic activities and potential implications in drug metabolism. |
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Caution: Product has not been fully validated for medical applications. For research use only.

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