**Product Name: Recombinant Human NGAL (C-6His, Human Cells)**
**Catalog #: PHH1090**

## Summary

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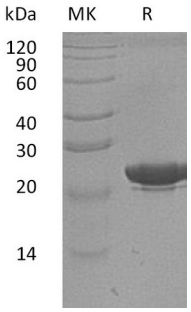
| **Name** | NGAL/Lipocalin-2/LCN2/Neutrophil gelatinase-associated lipocalin/p25 |
| **Purity** | Greater than 95% as determined by reducing SDS-PAGE |
| **Endotoxin level** | <1 EU/μg as determined by LAL test. |
| **Construction** | Recombinant Human Neutrophil Gelatinase-associated Lipocalin is produced by our Mammalian expression system and the target gene encoding Gln21-Gly198 is expressed with a 6His tag at the C-terminus. |
| **Accession #** | P80188 |
| **Host** | Human Cells |
| **Species** | Human |
| **Predicted Molecular Mass** | 21.6 KDa |
| **Formulation** | Supplied as a 0.2 μm filtered solution of PBS, 50% Glycerol, pH 7.4. |
| **Shipping** | The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below. |
| **Stability&Storage** | Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles. |
| **Reconstitution** | |

## SDS-PAGE image




## Background

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| **Alternative Names** | Neutrophil gelatinase-associated lipocalin; NGAL; 25 kDa alpha-2-microglobulin-related subunit of MMP-9; Lipocalin-2; Oncogene 24p3; Siderocalin LCN2; p25; HNL; NGAL |
| **Background** | LCN2 is iron-trafficking protein involved in multiple processes such as apoptosis, |

innate immunity and renal development. LCN2 binds iron through association with 2,5-dihydroxybenzoic acid (2,5-DHBA), a siderophore that shares structural similarities with bacterial enterobactin, and delivers or removes iron from the cell, depending on the context. LCN2 is involved in apoptosis due to interleukin-3 (IL3) deprivation: iron-loaded form increases intracellular iron concentration without promoting apoptosis, while iron-free form decreases intracellular iron levels, inducing expression of the proapoptotic protein BCL2L11/BIM, resulting in apoptosis. LCN2 is involved in innate immunity, possibly by sequestrating iron, leading to limit bacterial growth.

## Note

For Research Use Only , Not for Diagnostic Use.