

Product datasheet for **TP728004**

NGAL (LCN2) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human NGAL/Lipocalin-2/LCN2 (C-6His, Human Cells)
Species:	Human
Expression cDNA Clone or AA Sequence:	Gln21-Gly198
Tag:	C-His
Buffer:	Supplied as a 0.2 um filtered solution of PBS, 50% Glycerol, pH 7.4.
Note:	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.
Storage:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Stability:	12 months from date of despatch
Locus ID:	3934
UniProt ID:	P80188
Synonyms:	Neutrophil gelatinase-associated lipocalin; NGAL; 25 kDa alpha-2-microglobulin-related subunit of MMP-9; Lipocalin-2; Oncogene 24p3; Siderocalin LCN2; p25; HNL; NGAL
Summary:	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 BCL2L1/BIM, resulting in apoptosis. LCN2 is involved in innate immunity, possibly by sequestering iron, leading to limit bacterial growth.
Protein Families:	Secreted Protein



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