

Product datasheet for **TP723847**

NGAL (LCN2) (NM_005564) Human Recombinant Protein

Product data:

| | |
|---------------------------------------|--|
| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Human lipocalin 2 (LCN2 / NGAL) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | Human NGAL, the region of Gln21-Gly198, from gene Accession# NP_005555 |
| Tag: | C-His |
| Predicted MW: | 22 kDa |
| Concentration: | lot specific |
| Purity: | >95%, as determined by Coomassie stained SDS-PAGE. |
| Buffer: | 1 x PBS |
| Bioactivity: | The BC50 = 1.2 μ M, determined by dose dependent binding of the protein (4 μ M) with [Fe3+ (DHBA)3] complex. |
| Endotoxin: | Less than 0.01 ng per μ g protein as determine by the LAL method |
| Storage: | Store at -80°C. |
| Stability: | Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles. |
| RefSeq: | NP_005555 |
| Locus ID: | 3934 |
| UniProt ID: | P80188 |
| RefSeq Size: | 840 |
| Cytogenetics: | 9q34.11 |
| RefSeq ORF: | 594 |
| Synonyms: | 24p3; MSFI; NGAL; p25 |


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Summary:

This gene encodes a protein that belongs to the lipocalin family. Members of this family transport small hydrophobic molecules such as lipids, steroid hormones and retinoids. The protein encoded by this gene is a neutrophil gelatinase-associated lipocalin and plays a role in innate immunity by limiting bacterial growth as a result of sequestering iron-containing siderophores. The presence of this protein in blood and urine is an early biomarker of acute kidney injury. This protein is thought to be involved in multiple cellular processes, including maintenance of skin homeostasis, and suppression of invasiveness and metastasis. Mice lacking this gene are more susceptible to bacterial infection than wild type mice. [provided by RefSeq, Sep 2015]

Protein Families:

Secreted Protein

Product images:
