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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 μM, determined by dose dependent binding of the protein (4 μM) with [Fe3+ (DHBA)3] complex.
Endotoxin:	Less than 0.01 ng per μg 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 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: