Recombinant Human NGAL/Lipocalin-2 Protein (His Tag, Human Cells)

Catalog Number:PKSH032806

Note: Centrifuge before opening to ensure complete recovery of vial contents.

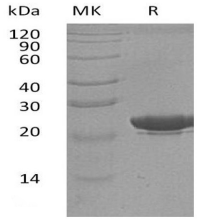
Description

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
Species	Human
Expression Host	HEK293 Cells
Sequence	Gln21-Gly198
Accession	P80188
Calculated Molecular Weight	21.6 kDa
Observed molecular weight	23 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 μm filtered solution of PBS, 50% Glycerol, pH 7.4.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

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.

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