

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

Catalog Number: PKSH032806



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

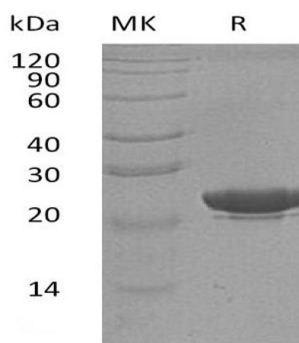
## Description

<b>Species</b>	Human
<b>Mol_Mass</b>	21.6 kDa
<b>Accession</b>	P80188
<b>Bio-activity</b>	Not validated for activity

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	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.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of PBS, 50% Glycerol, pH 7.4.
<b>Reconstitution</b>	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 BCL2L1/BIM; resulting in apoptosis. LCN2 is involved in innate immunity; possibly by sequestering iron; leading to limit bacterial growth.

## For Research Use Only

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