A Reliable Research Partner in Life Science and Medicine

Recombinant Mouse NGAL/Lipocalin-2 Protein (His Tag)

Catalog No. PKSM041250

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

Description

Synonyms Neutrophil gelatinase-associated lipocalin; NGAL; Lipocalin-2; SV-40-induced 24P3

protein;Siderocalin LCN2;p25;LCN2

Species Mouse

Expression Host HEK293 Cells Gln21-Asn200 **Sequence**

P11672 Accession Calculated Molecular Weight 21.9 kDa Observed molecular weight 20-28 kDa C-His Tag

Bioactivity Not validated for activity

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

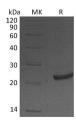
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 µm filtered solution of 20mM Histidine-HCl, 8% Trehalose, 2%

Glycine, 50mM NaCl, 0.05% Tween 80, pH6.5.

Reconstitution Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Lipocalin-2, also known as Neutrophil Gelatinase-Associated Lipocalin (NGAL), is a secretory protein of the lipocalin superfamily. Lipocalin-2 contains a signal peptide that enables it to be secreted and form complexes with matrix metalloproteinase-9 (MMP-9) through disulfide bonds. Similar to other lipocalin family members, Lipocalin-2 is involved in diverse cellular processes, including the transport of small hydrophobic molecules, protection of MMP-9 from

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017 Email: techsupport@elabscience.com

Web: www.elabscience.com

Elabscience Bionovation Inc.



A Reliable Research Partner in Life Science and Medicine

proteolytic degradation, and cell signaling. Furthermore, Lipocalin-2 can tightly bind to bacterial siderophore through a cell surface receptor, possibly serving as a potent bacteriostatic agent by sequestering iron, regulating innate immunity and protecting kidney epithelial cells from ischemia-reperfusion in jury. This protein is mainly expressed in neutrophils and in lower levels in the kidney, prostate, and epithelia of the respiratory and alimentary tracts. Recent evidence also suggests its role as a biomarker for renal injury and inflammation.

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017 Email: techsupport@elabscience.com

Web: www.elabscience.com