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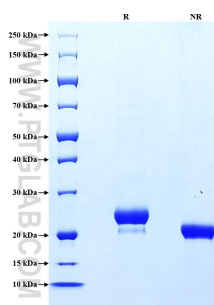
# Recombinant Rat Lipocalin-2/NGAL protein (His Tag)



Catalog Number: Eg1022

Basic Information	Species: Rat	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;0.1 EU/ µg protein, LAL method</p> <p><b>Source:</b> HEK293-derived Rat Lipocalin-2 protein Gln21-Asn198 (Accession# P30152) with a His tag at the C-terminus.</p> <p><b>GeneID:</b> 170496</p> <p><b>Accession:</b> P30152</p> <p><b>Predicted Molecular Mass:</b> 21.6 kDa</p> <p><b>SDS-PAGE:</b> 22-26 kDa, reducing (R) conditions</p> <p><b>Formulation:</b> Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p><b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <p><b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>Neutrophil gelatinase-associated lipocalin (NGAL, also known as lipocalin-2, siderocalin, or LCN2) is a small molecule of almost 25 kDa that belongs to the well-defined superfamily of proteins called lipocalins. NGAL was initially found in activated neutrophils, under its role as an innate antibacterial factor. However, it subsequently was shown that many other types of cells, including in the kidney tubule, may produce NGAL in response to various injuries. NGAL may become one of the most promising next-generation biomarkers in clinical nephrology and beyond.</p>		
References	<ol style="list-style-type: none"><li>1. Lim D, et al. (2021) CNS Neurosci Ther.27:883-94.</li><li>2. Kjeldsen L, et al. (1993) J Biol Chem.268:10425-32.</li><li>3. Devireddy LR, et al. (2005) Cell.123:1293-305.</li><li>4. Xing C, et al. (2014) Stroke.45:2085-92.</li><li>5. Asaf S, et al. (2023) Immunol Res.71:287-313.</li></ol>		
Synonyms	Lcn2, Lipocalin2/NGAL, Alpha-2-microglobulin-related protein, Alpha-2U globulin-related protein, lipocalin 2		

## Selected Validation Data



Purity of Recombinant Rat Lipocalin-2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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