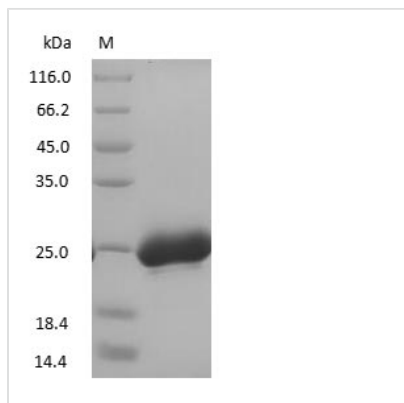




# Human Neutrophil gelatinase-associated lipocalin protein

<b>Product Code</b>	CSB-NP068341h
<b>Relevance</b>	Iron-trafficking protein involved in multiple processes such as apoptosis, innate immunity and renal development. 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. Iron-bound form (holo-24p3) is internalized following binding to the SLC22A17 (24p3R) receptor, leading to release of iron and subsequent increase of intracellular iron concentration. In contrast, association of the iron-free form (apo-24p3) with the SLC22A17 (24p3R) receptor is followed by association with an intracellular siderophore, iron chelation and iron transfer to the extracellular medium, thereby reducing intracellular iron concentration. 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. Involved in innate immunity, possibly by sequestering iron, leading to limit bacterial growth.
<b>Storage</b>	Aliquot and store at -20°C or -80°C. Avoid repeated freeze/thaw cycles.
<b>Tested Applications</b>	ELISA, WB, SDS-PAGE. Latex enhanced turbidimetric immunoassay (LETIA), immunogen and other possible
<b>Form</b>	Liquid
<b>Storage Buffer</b>	PBS, pH 7.4
<b>Alias</b>	N/A
<b>Product Type</b>	Native Protein
<b>Sensitivity</b>	Not test
<b>Purity</b>	≥95% (SDS-PAGE)
<b>Sequence</b>	Full length protein
<b>Research Area</b>	Immunology
<b>Source</b>	Purified from Human urine
<b>Protein Names</b>	Human Neutrophil gelatinase-associated lipocalin protein
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.