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Product datasheet for AR51913PU-N

Lipocalin-2 (21-200, His-tag) Mouse Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Lipocalin-2 (21-200, His-tag) mouse recombinant protein, 0.5 mg
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSQDSTQNL IPAPSLLTVP LQPDFRSDQF RGRWYVVGLA GNAVQKKTEG SFTMYSTIYE LQENNSYNVT SILVRDQDQG CRYWIRTFVP SSRAGQFTLG NMHRYPQVQS YNVQVATTDY NQFAMVFFRK TSENKQYFKI TLYGRTKELS PELKERFTRF AKSLGLKDDN IIFSVPTDQC IDN
Tag:	His-tag
Predicted MW:	23.3 kDa
Concentration:	lot specific
Purity:	>85% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: Liquid, In Phosphate buffered saline (pH 7.4) containing 10% glycerol, 1 mM DTT
Preparation:	Liquid purified protein
Protein Description:	Recombinant mouse Lcn2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_032517
Locus ID:	16819
UniProt ID:	P11672
Cytogenetics:	2 22.09 cM
Synonyms:	LCN2, HNL, NGAL, p25, Oncogene 24p3

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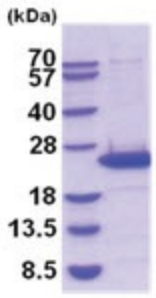
Summary: Iron-trafficking protein involved in multiple processes such as apoptosis, innate immunity and renal development (PubMed:12453413). Binds iron through association with 2,5-dihydroxybenzoic acid (2,5-DHBA), a siderophore that shares structural similarities with bacterial enterobactin, and delivers 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; limits bacterial proliferation by sequestering iron bound to microbial siderophores, such as enterobactin (PubMed:15531878, PubMed:16446425). Can also bind siderophores from M.tuberculosis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



15% SDS-PAGE (3ug)