

Recombinant Human Lipocalin-2/NGAL/LCN2 Protein

RPCB0006



Product Information

Product SKU:	RPCB0006	Gene ID:	3934	Size:	10µg
Tag:	C-His	Reactivity:	Human		

Additional Information

Expression Host:	-	Swissprot:	P80188
Purity:	> 95% by SDS-PAGE.		

Protein Information

Background: Lipocalin-2, also known as Neutrophil Gelatinase-Associated Lipocalin (NGAL), was originally identified as a component of neutrophil granules . It is a 25 kDa protein existing in monomeric and homo- and heterodimeric forms, the latter as a dimer with human neutrophil gelatinases (MMP-9) . Its expression has been observed in most tissues normally exposed to microorganism, and its synthesis is induced in epithelial cells during inflammation . Lipocalin-2 has been implicated in a variety of processes including cell differentiation, tumorigenesis, and apoptosis . Studies indicate that Lipocalin-2 binds a bacterial catecholate siderophore bound to ferric ion such as enterobactin with a subnanomolar dissociation constant . The bound ferric enterobactin complex breaks down slowly in a month into dihydroxybenzoyl serine and dihydroxybenzoic acid (DHBA). It also binds to a ferric DHBA complex with much less Kd values (7.9 nM) . Secretion of Lipocalin-2 in immune cells increases by stimulation of Toll-like receptor as an acute phase response to infection. As a result, it acts as a potent bacteriostatic reagent by sequestering iron . Moreover, Lipocalin-2 can alter the invasive and metastatic behavior of Ras-transformed breast cancer cells in vitro and in vivo by reversing epithelial to mesenchymal transition inducing activity of Ras, through restoration of E-cadherin expression, via effects on the Ras-MAPK signaling pathway .

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- Protein Description:** High quality, high purity and low endotoxin recombinant Recombinant Human Lipocalin-2/NGAL/LCN2 Protein , tested reactivity in HEK293 cells and has been validated in SDS-PAGE.100% guaranteed.
- Endotoxin:** < 0.01 EU/μg of the protein by LAL method.
- Formulation:** Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
- Storage:** Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.