

Lcn2, 21-198aa, Rat, His tag, E.coli

Cat.NO.: TP02790

3th Edition

Synonyms:Sip24

Description:Lcn2 also known as Neutrophil gelatinase-associated lipocalin. It belongs to the calycin superfamily and Lipocalin family. It is essential component of the antimicrobial innate immune system, is present in neutrophils and multiple other tissues. It prevents iron acquisition by microorganisms by sequestering iron-loaded bacterial siderophores. In contrast to its pro-apoptotic activity, Lcn2 has also been reported to be a survival factor. Lcn2 protected thyroid carcinoma cells from apoptosis induced by serum deprivation and silencing of Lcn2 reduced thyroid tumor growth. Recombinant rat Lcn2, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In Phosphate Buffered Saline (pH7.4) containing 20% glycerol

Molecular Weight:22.9kDa (201aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSQDSTQNLIPAPPLISVPLQPGFWTERFQGRWFVVGLAANAVQKERQSRFTM
YSTIYELQEDNSYNVTSILVRGQGCRYWIRTFVPSSRPGQFTLGNIHSYPQIQSYDVQVADTDYDQFAMVFFQKTSE
NKQYFKVTLYGR TKGLSDELKERFVSFAKSLGLKDN NIVFSVPTDQCIDN

Purity:> 95% by HPLC

Concentration:0.25mg/ml (determined by Absorbance at 280nm)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.