

Noggin Recombinant Protein 说明书

货号: JFKR-RP06-100ug/ JFKR-RP06-1mg

规格: 100 ug /1mg

浓度: 冻干粉

种属: Human

保存条件: -20°C, 1 年, -80°C, 2 年

运输条件: 常温

表达体系: HEK293 Cells

氨基酸序列:

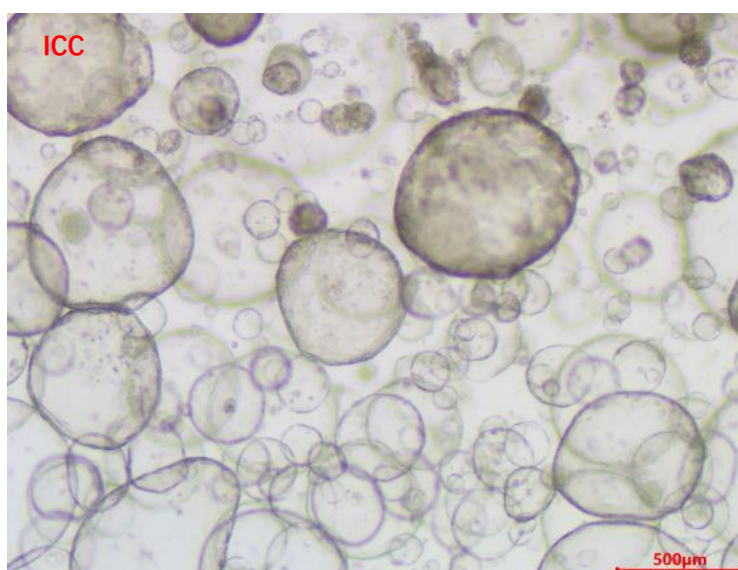
QHYLEHIRPAP SDNLPLVDLI EHPDPIFDPK EKDLNETLLR SLLGGHYDPG
FMATSPPEDR PGGGGGAAGG AEDLAELDQL LRQRPSGAMP SEIKGLEFSE
GLAQGKKQRL SKKLRRKLQM WLWSQTFCPV LYAWNDLGSR
FWPRYVKVGS CFSKRSCSVP EGMVCKPSKS VHLLTVLRWRC
QRRGGQRCGW IPIQYPIISE CKCSC

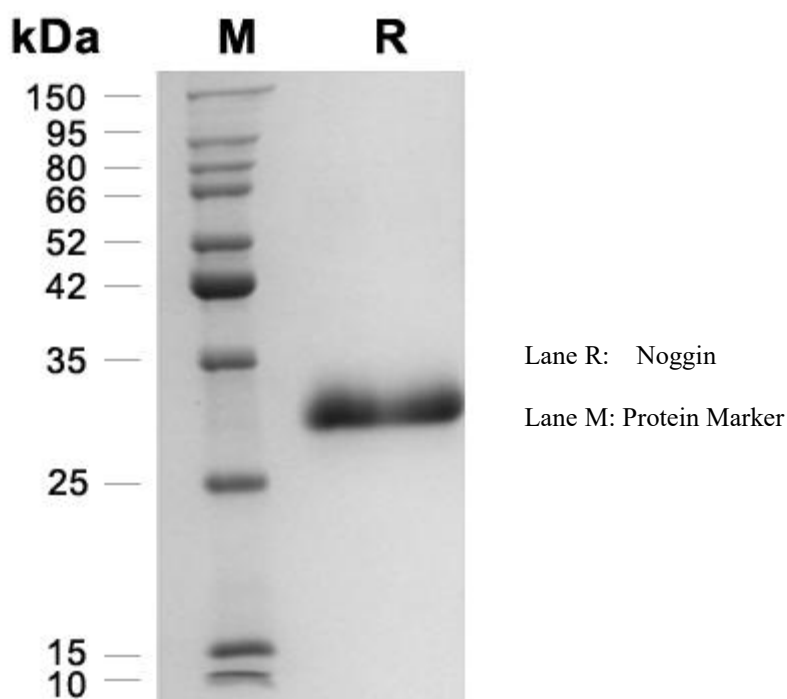
分子量: 24.6 kDa

内毒素: < 1.0 EU/μg of the protein as determined by the LAL method

纯度: 还原纯度 (SDS-PAGE) >95%

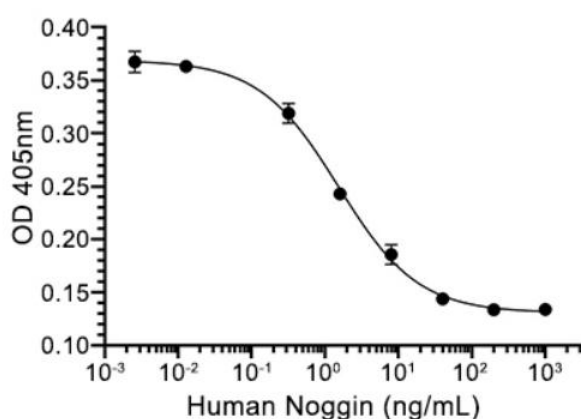
活性: 经过 ICC 类器官测试, ICC 类器官生长良好





生物活性:

Measured by its ability to inhibit BMP-4-induced alkaline phosphatase production by ATDC5 mouse chondrogenic cells, The ED50 for this effect is 0.1-0.6 $\mu\text{g/mL}$ in the presence of 27ng/mL of recombinant human BMP-4.



Noggin 蛋白介绍:

Noggin is a secreted protein involved at multiple stages of vertebrate embryonic development including neural induction and is known to exert its effects by inhibiting the bone morphogenetic protein (BMP)-signaling pathway. It binds several BMPs with very high (picomolar) affinities, with a marked preference for BMP2 and BMP4 over BMP7. By binding tightly to BMPs, Noggin prevents BMPs from binding their

receptors. Noggin binds the bone morphogenetic proteins (BMP) such as BMP-4 and BMP-7 and inhibits BMP signaling by blocking the molecular interfaces of the binding epitopes for both types I and type II receptors. Interaction of BMP and its antagonist Noggin governs various developmental and cellular processes, including embryonic dorsal-ventral axis, induction of neural tissue, the formation of joints in the skeletal system, and neurogenesis in the adult brain. Noggin plays a key role in neural induction by inhibiting BMP4, along with other TGF- β signaling inhibitors such as chordin and follistatin. Mouse knockout experiments have demonstrated that noggin also plays a crucial role in bone development, joint formation, and neural tube fusion.

运用范围:

For Laboratory Research Use Only. Not For Use In Diagnostic Procedures.