For Research Use Only

anti-FGF-9 recombinant VHH, for 1x Cys conjugation

www.ptglab.com

Catalog Number: fgf9Cys1

Basic Information

Catalog Number:
fgf9Cys1

Applications:
Conjugation

Host:
Alpaca

Conjugate:
Unconjugated

Type:
Nanobody

Class:
Recombinant

RRID:
AB_3665412

Molecular Weight:
14.8 kDa

Description

fgf9Cys1 is an unconjugated recombinant anti FGF9 Nanobody (VHH). Suitable for for cysteine conjugation with thiol-reactive reagents, e.g. maleimides. Note: unconjugated VHHs are not suited for usage without prior labeling, since they contain reactive Cysteines. Shipment and storage buffers contain TCEP to keep Cysteines reduced.

Affinity

/

Background

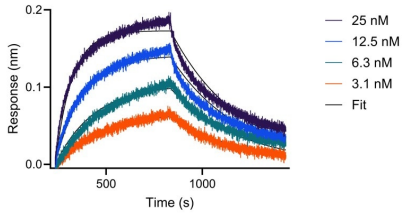
FGF-9 is a 26 kdA, glycosylated protein that is a member of the FGF superfamily. It primarily binds with FGFR3 and plays prominent roles in the regulating embryonic, lung, and skeletal development. It is a key regulator of male sex determination through promoting the proliferation of pre-Sertoli cells. It signals in conjunction with FGF-10 and SHH to drive the development of the lung mesenchymal space. FGF-9 is also a positive regulator of chondrocyte proliferation and osteogenesis during the bone formation process. Overexpression of loss of FGF-9 during skeletal development often results in aberrant bone growth. (PMID: 28395336, 25772309, 16540513, 25435023).

Storage

Storage:
Store at -20°C

Storage Buffer:
10 mM HEPES pH 7.0, 500 mM NaCl, 0.09% sodium azide

Selected Validation Data



BLI analysis of the interaction between varying concentrations of anti-FGF-9 VHH and immobilised, biotinylated HumanKine FGF-9 (HZ-1329). Fit indicates fitting of data to a 1:1 binding model.