

For Research Use Only

anti-IL34 recombinant VHH, for 1x Cys conjugation



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Catalog Number: IL34Cys1

Basic Information

Catalog Number:
IL34Cys1

Applications:
Conjugation

Host:
Alpaca

Conjugate:
Unconjugated

Type:
Nanobody

Class:
Recombinant

RRID:
AB_3665406

Molecular Weight:
15.0 kDa

Description

IL34Cys1 is an unconjugated recombinant anti IL34 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

330 nM

Background

IL-34 is a 6- α -helix, proinflammatory cytokine that serves as a ligand for colony-stimulating factor-1 receptor (CSF1R). It is expressed most abundantly by spleen cells. It primarily stimulates human peripheral blood monocyte proliferation and macrophage colony formation. It is also required for Langerhans cell and microglia development. IL-34 has been shown to play a protective role in cancer and Alzheimer's disease, but it can promote the progression of several autoimmune, inflammatory, and metabolic diseases. As such IL-34 could be used as a biomarker to mark the progression of these diseases (PMID: 22579672, 27577879, 31940023).

Storage

Storage:
Store at -20°C

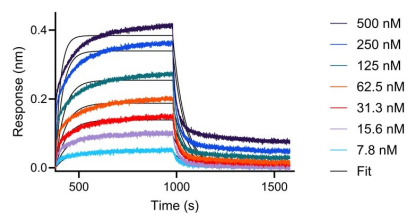
Storage Buffer:
10 mM HEPES pH 7.0, 500 mM NaCl, 0.09% sodium azide

For technical support and original validation data for this product please contact

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Selected Validation Data



BLI analysis of the interaction between varying concentrations of anti-IL-34 VHH and immobilised, biotinylated HumanKine IL-34 (HZ-1316). Fit indicates fitting of data to a 1:1 binding model.