

GFH220

Recombinant Human IL-34

Description

Interleukin 34 (IL-34) was originally identified in humans, by large scale screening of secreted proteins; orthologs have also been found in chimpanzee, murine, rat and chicken. Human IL-34 is synthesized as a 242 amino acid (aa) precursor that contains a 20 aa signal sequence and a 222 aa mature chain. IL-34 is secreted as a homodimer and contains one potential N-glycosylation site. IL-34 increases proliferation of immune cells known as monocytes; it elicits its activity by binding the Colony Stimulating Factor 1 Receptor (CSF-1R). Expression of IL-34 is most abundant in the spleen and is expressed in many other tissues including the heart, brain, liver, kidney, thymus, intestine and lung. Human IL-34 contains a C-terminal 6x-polyhistidine (6xHis) tag.

Length	228 aa
Molecular weight	26 kDa
Source	<i>E. coli</i>
Accession number	NP_689669
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

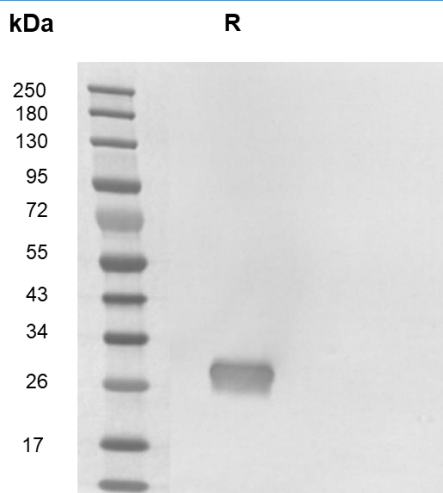
Specifications

Alternative names	None
Biological activity	No biological activity data is available at this time.
Endotoxin level	≤0.1 EU/μg as measured by kinetic LAL
Formulation	Lyophilized from a 0.2 μm filtered solution containing phosphate buffered saline (PBS)
AA sequence	NEPLEMWPLT QNEECTVTGF LRDKLQYRSR LQYMKHYFPI NYKISVPYEG VFRIANVTRL QRAQVSEREL RYLWVLVLSL ATESVQDVLL EGHPSWKYLQ EVETLLLNVO QGLTDVEVSP KVESVLSLLN APGPNLKLVR PKALLDNCFR VMELLYCSCC KQSSVLNWQD CEVPSPQSCS PEPSLQYAAT QLYPPPPWSP SSPPHSTGSV RPVRAQGEGL LPHHHHHH

Preparation and storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/mL (reconstitution at concentrations > 0.1 mg/mL may result in a precipitate), which can be further diluted into other aqueous solutions. If a precipitate is observed, centrifuge the solution thoroughly and use only the soluble fraction (removing it from the precipitate). A 10% overfill has been added to compensate for any loss of protein in the precipitate.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Deglycosylated rh IL-34 is represented by Western blot under reducing conditions and visualized at 26.0 kDa.