

Recombinant Human LAIR-2/CD306 Protein

Catalog No.: RP01034 **Recombinant**

Sequence Information

Species **Gene ID** **Swiss Prot**
 Human 3904 Q6ISS4

Tags

C-His

Synonyms

LAIR2;CD306

Background

Leukocyte-associated immunoglobulin-like receptor 2 (LAIR2), also known as CD36, is a 131 amino acid protein containing one Ig-like C2-type domain, making it a member of the Ig superfamily. When compared to LAIR-1, its transmembrane counterpart, it shares 83% aa identity across the signal sequence and extracellular domains, the two LAIR proteins are thought to have arisen from a common gene ancestor and appear to share similar adhesion profiles. LAIR2 is thought to be secreted and may help modulate mucosal tolerance. As a natural competitor for LAIR1, soluble LAIR2 prevents binding of human LAIR1 to collagens and LAIR1 cross-linking, thereby regulating its inhibitory potential. LAIR2 is thought to be secreted and may help modulate mucosal tolerance.

Basic Information

Product Information

Source **Purification**
 HEK293 cells $\geq 90\%$ as determined by SDS-PAGE.

Calculated MW **Observed MW**
 14.91 kDa 15-25 kDa

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze/thaw cycles.

Description

Recombinant Human LAIR-2/CD306 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln22-Pro152) of human LAIR2 (Accession #NP_002279) fused with a 6xHis tag at the C-terminus.

Bio-Activity

Measured by the ability of the immobilized protein to support the adhesion of HT-29 human colon adenocarcinoma cells. When 5 \times 10⁴ cells/well are added to rhLAIR-2 coated plates (50 μ g/mL with 100 μ L/well), approximately 50%-60% will adhere after 10 minutes at 37°C.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

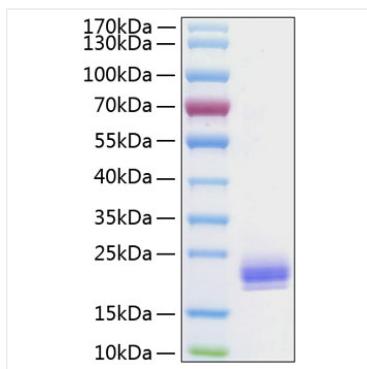
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human LAIR-2/CD306 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.