

Recombinant Human LAIR2/CD306 Protein

Catalog Number:PKSH031382



Note: Centrifuge before opening to ensure complete recovery of vial contents.

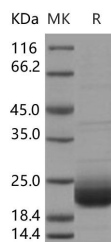
Description

Synonyms	Leukocyte-Associated Immunoglobulin-Like Receptor 2;LAIR-2;CD306;LAIR2
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Pro 152
Accession	NP_002279.2
Calculated Molecular Weight	14.1 kDa
Observed molecular weight	22 kDa
Tag	None
Bioactivity	Measured by the ability of the immobilized protein to support the adhesion of HT-29 human colon adenocarcinoma cells. When 5×10^4 cells/well are added to recombinant human LAIR2 coated plates (50 $\mu\text{g/ml}$ with 100 $\mu\text{l/well}$), > 30% will adhere after 30 minutes at 37°C. Optimal concentration depends on cell type as well as the application or research objectives.

Properties

Purity	> 93 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 50mM Tris, 0.7M NaCl, pH 8.0 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 93 % as determined by reducing SDS-PAGE.

Background

Leukocyte-associated immunoglobulin-like receptor 2 (LAIR2), also known as CD306, is a 131 amino acid protein containing one Ig-like C2-type domain. It is expressed as a soluble receptor exhibiting high affinity for various collagen molecules to which it binds in a hydroxyproline-dependent manner. LAIR2 is a member of the immunoglobulin

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superfamily and was identified by its similarity to LAIR1, an inhibitory receptor present on mononuclear leukocytes. 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. Accordingly, LAIR2 is suggested to perform an immunoregulatory function.

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