
Product Data Sheet

Product Name: LAIR2 Human
 Cat. No.: GP23791
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Leukocyte-associated immunoglobulin-like receptor 2; LAIR-2; CD306; LAIR2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSQMREGAL PRPSISAEPG TVISPGSHVT FMCRGVGVQ TFLEREDRA KYKDSYNVFR LGPSESEARF HIDSVSEGNA GLYRCLYYKP PGWSEHSDFL ELLVKGTVPG TEASGFDAP.		
Formulation	LAIR2 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT.		

Introduction

Leukocyte-associated immunoglobulin-like receptor 2 (LAIR2) is a secreted, 131 amino acids protein which contains one IglikeC2 type domain, rendering it a member of the Ig superfamily. Even though one is secreted and one is membrane bound, the 2 LAIR proteins are assumed to have evolved from a common gene ancestor and seem to share similar adhesion profiles, suggesting that LAIR2 may compete with LAIR1 for ligand binding. LAIR2 was discovered by its similarity to LAIR1, which is an inhibitory receptor present on mononuclear leukocytes. The LAIR2 gene maps to a region of 19q13.4, dubbed the leukocyte receptor cluster, which contains 29 genes in the immunoglobulin superfamily, including LAIR1. The function of the LAIR2 protein is unknown, though it is assumed to be secreted and may help modulate mucosal tolerance.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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LAIR2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 139 amino acids (22-135 a.a) and having a molecular mass of 15.2kDa. LAIR2 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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