
Product Data Sheet

Product Name: IL1RL1 Human, Sf9
 Cat. No.: GP20461
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	IL33R; Interleukin-1 receptor-like 1; Protein ST2; IL1RL1; DER4; ST2; T1; ST2L; ST2V; FIT-1; MGC32623.		
Amino Acid Sequence	KFSKQSWGLE NEALIVRCPR QGKPSYTVDW YYSQTNKSIP TQERNRVFAS GQLLKFLPAA VADSGIYTCI VRSPTFNRTG YANVTIYKKQ SDCNVPDYL YSTVSGSEKN SKIYCPTIDL YNWTAPLEWF KNCQALQGSR YRAHKSFLVI DNVMTEADAGD YTCKFIHNEN GANYSVTATR SFTVKDEQGF SLFPVIGAPA QNEIKEVEIG KNANLTC SAC FGKGTQFLAA VLWQLNGTKI TDFGEPRIQQ EEGQNQSFSN GLACLDMLR IADVKEEDLL LQYDCLALNL HGLRRHTVRL SRKNPIDHHS LEHHHHHH.		
Formulation	IL1RL1 protein solution (0.5mg/ml) contains Phosphate buffered saline (pH7.4) and 10% glycerol.		

Introduction

The IL1RL1 gene is a member of the IL-1 receptor family, encoding a transmembrane protein with a structure similar to IL-1R1. IL1RL1 is a receptor for interleukin-33, its stimulation recruits MYD88, IRAK1, IRAK4, and TRAF6, followed by phosphorylation of MAPK3/ERK1 and/or MAPK1/ERK2, MAPK14, and MAPK8. IL1RL1 may possibly be involved in helper T-cell function. IL1RL1 is highly expressed in kidney, lung, placenta, stomach, skeletal muscle, colon and small intestine. A soluble form of the IL1RL1 is produced from the same gene by alternative splicing and was shown to be expressed in several cell types including fibroblasts and mast cells. Soluble IL1RL1 also acts as a negative regulator of Th2 cytokine production and high levels have been reported in several disease states and conditions including asthma, sepsis and myocardial infarction. Analysis of the similar gene in mouse suggested that the IL1RL1 receptor can be induced by proinflammatory stimuli, and may be involved in the function of helper T

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

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cells.

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

IL 1RL1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain (19-328 a.a.) and fused to an 8 aa His Tag at C-terminus containing a total of 318 amino acids and having a molecular mass of 36.0kDa. IL 1RL1 shows multiple bands between 40-57kDa on SDS-PAGE, reducing conditions and purified by proprietary chromatographic techniques.

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