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## Product Data Sheet

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Product Name: IL1RL1 Human, Sf9 Active

Cat. No.: GP20462

Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Interleukin 1 Receptor Like 1; Homolog Of Mouse Growth Stimulation-Expressed; DER4; ST2; T1; Interleukin 1 Receptor-Related Protein; Interleukin-1 Receptor-Like 1; Growth Stimulation-Expressed; Protein ST2; FIT-1; IL33R; ST2L; ST2V; Interleukin-1 receptor-like 1.		
Amino Acid Sequence	KFSKQSWGLE NEALIVRCPR QGKPSYTVDW YYSQTNKSIP TQERNRVFAS GQLLKFLPAA VADSGIYTCI VRSPTFNRTG YANVTIYKKQ SDCNVPDYL YSTVSGSEKN SKIYCPTIDL YNWTAPLEWF KNCQALQGSR YRAHKSFLVI DNVMTEDAGD 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 10% glycerol & Phosphate Buffered Saline (pH 7.4).		

**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

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

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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 cells.

### Biological Activity

Measured by its ability to inhibit proliferation using D10.G4.1 mouse helper T cells. The ED50 for this effect is less or equal to 10ng/ml with IL-33.

### 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

IL1RL1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 318 amino acids (19-328a.a.) and having a molecular mass of 36.0kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). IL1RL1 is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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