

# Recombinant Human IL-1R9/IL1RAPL2 Protein (His Tag)



Catalog Number:PKSH031826

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

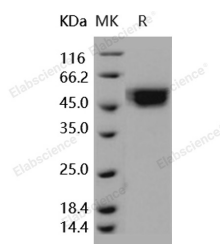
## Description

<b>Synonyms</b>	IL-1R9;IL1R9;IL1RAPL-2;TIGIRR-1
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met 1-Glu 356
<b>Accession</b>	NP_059112.1
<b>Calculated Molecular Weight</b>	40.7 kDa
<b>Observed molecular weight</b>	50-55 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Measured by its ability to bind biotinylated human IL1 $\alpha$ in functional ELISA.

## Properties

<b>Purity</b>	> 98 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4 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.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



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## Background

X-linked interleukin-1 receptor accessory protein-like 2 (IL1RAPL2) or Interleukin-1 receptor 9 (IL-1R9) is a member of the interleukin 1 receptor family. This protein is similar to the interleukin 1 accessory proteins. IL-1R9/IL1RAPL2 shows restricted expression in fetal brain and is highly homologous to IL1RAPL; which is reportedly involved in nonsyndromic X-linked mental retardation. IL-1R9/IL1RAPL2 is highly homologous to IL-1R8. Both forms have no known ligands and receptor are found in the fetal brain. IL-1R9/IL1RAPL2 may function as a negative receptor. Both IL1RAPL1 and IL1RAPL2 have novel C-terminal sequences not present in other related proteins. IL-1R9/IL1RAPL2 may be strong candidates for X-linked non-syndromic mental retardation loci; and that molecules resembling IL-1 and IL-18 play a role

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in the development or function of the central nervous system.

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