# IL1RAPL1 Protein, Human (HEK293, His)

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| **Cat. No.:** | HY-P70923 |
| **Synonyms:** | Interleukin-1 Receptor Accessory Protein-Like 1; IL-1-RAPL-1; IL-1RAPL-1; IL1RAPL-1; Oligophrenin-4; Three Immunoglobulin Domain-Containing IL-1 Receptor-Related 2; TIGIRR-2; X-Linked Interleukin-1 Receptor Accessory Protein-Like 1; IL1RAPL1; OPHN4 |
| **Species:** | Human |
| **Source:** | HEK293 |
| **Accession:** | Q9NZN1 (L19-T357) |
| **Gene ID:** | 11141 |
| **Molecular Weight:** | 50-70 kDa |

## PROPERTIES

**AA Sequence**

L K V V T K R G S A D G C T D W S I D I K K Y Q V L V G E P V R I K C A L F Y G
Y I R T N Y S L A Q S A G L S L M W Y K S S G P G D F E E P I A F D G S R M S K
E E D S I W F R P T L L Q D S G L Y A C V I R N S T Y C M K V S I S L T V G E N
D T G L C Y N S K M K Y F E K A E L S K S K E I S C R D I E D F L L P T R E P E
I L W Y K E C R T K T W R P S I V F K R D T L L I R E V R E D D I G N Y T C E L
K Y G G F V V R R T T E L T V T A P L T D K P P K L L Y P M E S K L T I Q E T Q
L G D S A N L T C R A F F G Y S G D V S P L I Y W M K G E K F I E D L D E N R V
W E S D I R I L K E H L G E Q E V S I S L I V D S V E E G D L G N Y S C Y V E N
G N G R R H A S V L L H K R E L M Y T

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| **Biological Activity** | The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet. |
| **Appearance** | Lyophilized powder. |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. |
| **Endotoxin Level** | <1 EU/μg, determined by LAL method. |
| **Reconsititution** | It is not recommended to reconstitute to a concentration less than 100 μg/mL in $ddH_2O$. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| **Storage & Stability** | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| **Shipping** | Room temperature in continental US;may vary elsewhere. |

## DESCRIPTION

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| **Background** | IL1RAPL1 Protein emerges as a multifaceted regulator, potentially influencing secretion and presynaptic differentiation by inhibiting the activity of the N-type voltage-gated calcium channel. Additionally, it may activate the MAP kinase JNK, indicating its potential involvement in intracellular signaling pathways. IL1RAPL1 is implicated in neurite outgrowth, emphasizing its role in neuronal development. Remarkably, during dendritic spine formation, IL1RAPL1 demonstrates bidirectional capabilities, inducing both pre- and post-synaptic differentiation of neurons by trans-synaptically binding to PTPRD. The diverse functional roles proposed for IL1RAPL1 underscore its significance in orchestrating complex cellular processes associated with synaptic function, neuronal development, and intracellular signaling pathways, warranting further exploration into its precise molecular mechanisms and broader implications in neuronal biology. |



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