



# Recombinant Protein Technical Manual

## Recombinant Human ILR8/IL1RAPL1 Protein (aa 1-354, His Tag)

RPES0855

### Product Data:

**Product SKU:** RPES0855

**Size:** 10µg

**Species:** Human

**Expression host:** HEK293 Cells

**Uniprot:** NP\_055086.1

### Protein Information:

**Molecular Mass:** 40 kDa

**AP Molecular Mass:** 50-55 kDa

**Tag:** C-His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** 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.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile PBS, pH 7.4

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** IL1R8;IL1RAPL;MRX10;MRX21;MRX34;OPHN4;TIGIRR-2

## Immunogen Information:

**Sequence:** Met 1-Leu 354

## Background:

Interleukin receptor accessory protein-like 1 (IL1RAPL1) is a member of interleukin receptor family. The protein structurally comprises three extracellular immunoglobulin domains, which presumably mediate binding of an as yet unidentified ligand, a transmembrane region, and an intracellular domain, which is likely to enable signalling via the NFkB pathway. The means of signalling is almost certain to be identical to that used by the IL1R family and the more distally related Toll protein. L1RAPL1 protein physically interacts via its 150 aa C-terminal domain with neuronal calcium sensor (NCS), a protein widely expressed in neurons and the related chromaffin and PC12 cells. IL1RAPL1 is an integral membrane protein responsible for a nonsyndromic form of mental retardation (MR). It is suggested to affect human cognitive ability to some extent, especially the memory and concentration capability.