

Human IL-1R8 / IL1RAPL1 Protein (His Tag)

Catalog Number: 10177-H08H



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Biological Solution Specialist

General Information

Gene Name Synonym:

IL1R8; IL1RAPL; MRX10; MRX21; MRX34; OPHN4; TIGIRR-2; 6330532G10Rik; C030039N24; IL1R8; IL1RAPL; MRX34; OPHN4; TIGIRR-2

Protein Construction:

A DNA sequence encoding the human IL1R8 (NP_055086.1) extracellular domain (Met 1-Leu 354) was expressed with a C-terminal polyhistidine tag.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Leu 19

Molecular Mass:

The recombinant human IL1R8 consists of 347 amino acids and has a predicted molecular mass of 40 kDa. As a result of glycosylation, the apparent molecular mass of rh IL1R8 is approximately 50-55 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

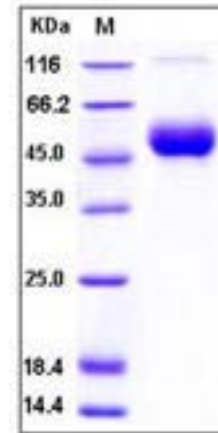
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Interleukin-1 receptor accessory protein-like 1 (IL1RAPL1) is a member of interleukin-1 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 NFκB 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-1 (NCS-1), 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.

References

1. Frdric Gambino, et al. (2007) IL1-receptor accessory protein-like 1 (IL1RAPL1), a protein involved in cognitive functions, regulates N-type Ca²⁺-channel and neurite elongation. *Proc Natl Acad Sci.* 104 (21): 9063-8.
2. Wheway JM, et al. (2003) A complex deletion-inversion-deletion event results in a chimeric IL1RAPL1-dystrophin transcript and a contiguous gene deletion syndrome. *J Med Genet.* 40: 127-131.

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