

# Recombinant Mouse IL-11RA (C-6His)

Catalog Number: PKSM041427

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

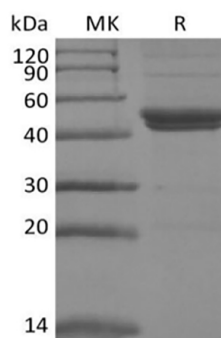
## Description

<b>Species</b>	Mouse
<b>Mol_Mass</b>	38.5 kDa
<b>Accession</b>	Q64385
<b>Bio-activity</b>	Not validated for activity

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg 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 a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 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



> 95 % as determined by reducing SDS-PAGE.

## Background

Interleukin 11 receptor alpha (IL 11 R alpha, IL 11 R alpha 1) originally designated NR1 in mouse, is a 49 kDa type I transmembrane protein that is a member of the gp130 subfamily of the hematopoietic cytokine receptor family. IL-11 R alpha first binds IL 11 with low affinity, then forms a high affinity receptor when complexed with gp130 homodimers. IL 11 R alpha is also anti-apoptotic for colonic epithelia, and increased IL 11 signaling may be a factor in inflammation-associated gastrointestinal cancer development. The IL11/IL11RA/IL6ST complex may be involved in the control of proliferation and/or differentiation of skeletogenic progenitor or other mesenchymal cells. Essential for the normal development of craniofacial bones and teeth. A soluble form (sIL11RA) can act as an antagonist of IL11-dependent cell differentiation in cells where both transmembrane IL11RA and IL6ST are present.

## For Research Use Only