

Datasheet for ABIN7274964

**IL7R Protein (His tag)**

3 Images

[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	IL7R
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL7R protein is labelled with His tag.

## Product Details

Sequence:	Glu21-Gly236
Purity:	> 95% as determined by Tris-Bis PAGE, > 95% as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 22.66 nM as determined in SPR assay (Biacore T200). See testing image for detail.

## Target Details

Target:	IL7R
Alternative Name:	IL-7R alpha ( <a href="#">IL7R Products</a> )
Background:	IL-17R alpha, IL7Ra, CD127, CDW127, ILRA, Interleukin 7 (IL-7) and its receptor (IL-7R, a heterodimer of IL-7Ra and γc) are essential for normal lymphoid development. IL-7 and IL-7R activate three main pathways: STAT5, PI3K/Akt/mTOR and MEK/Erk, ultimately leading to the

Target Details

	promotion of leukemia cell viability, cell cycle progression and growth.
Molecular Weight:	25.7 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.
Pathways:	<a href="#">JAK-STAT Signaling</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">Regulation of Cell Size</a>

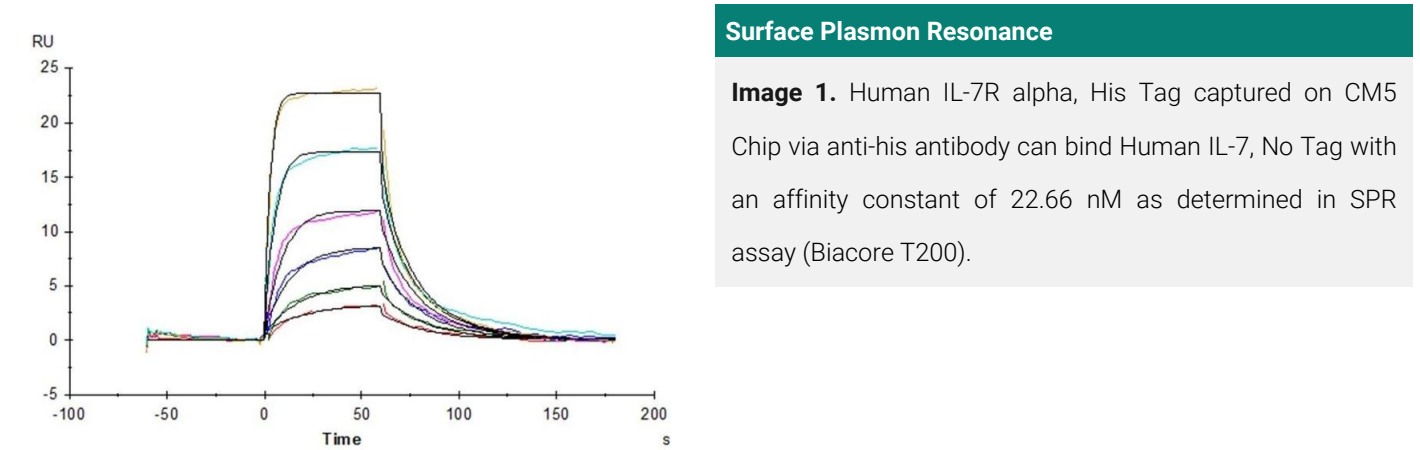
Application Details

Restrictions:	For Research Use only
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Handling

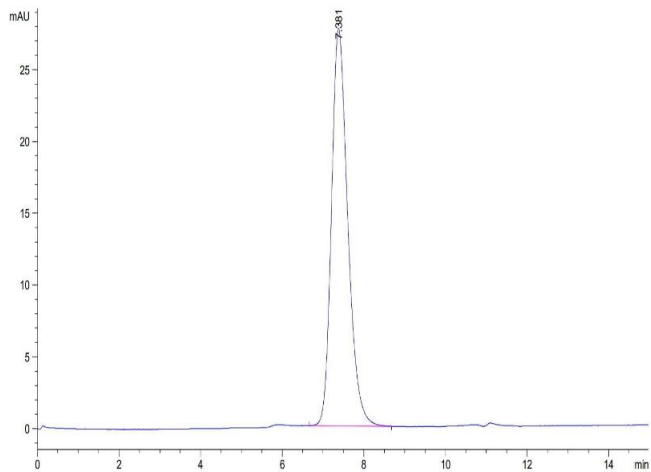
Format:	Lyophilized
Reconstitution:	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS ( pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.
Storage:	4 °C,-80 °C
Storage Comment:	Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Images



Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Human IL-7R alpha is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

**Image 3.** Human IL-7R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

