

# Recombinant Human CD47/IAP Protein (His Tag)

Catalog Number:PKSH033600



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

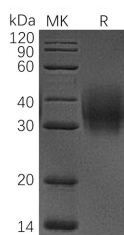
## Description

<b>Synonyms</b>	Leukocyte Surface Antigen CD47;Antigenic Surface Determinant Protein OA3;Integrin-Associated Protein;IAP;Protein MER6;CD47;MER6
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Gln19-Pro139
<b>Accession</b>	Q08722
<b>Calculated Molecular Weight</b>	14.8 kDa
<b>Observed molecular weight</b>	30-45 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Loaded Anti-Human CD47 mAb-Fc on Protein A Biosensor, can bind Human CD47-His with an affinity constant of 0.22 nM as determined in BLI assay.

## 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 10mM Tris-Citrate, 150mM NaCl, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the p
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

CD47(Integrin-Associated Protein;IAP) is a 40 - 60 kDa variably glycosylated atypical member of the immunoglobulin superfamily. The ubiquitously expressed CD47 binds to SIRP family members on macrophages; neutrophils; and T cells. CD47 is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. The protein is also a receptor for the C-terminal cell-binding domain of thrombospondin; and it may play a role in

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membrane transport and signal transduction. This protein has broad tissue distribution; and is reduced in expression on Rh erythrocytes.

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