

Recombinant human CD47 protein

Catalog Number: ATGP4015

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

19-141aa

UniProt No.

Q08722

NCBI Accession No.

NP_001768

Alternative Names

CD47, OA3, IAP, MER6, Leukocyte surface antigen CD47 isoform 1, antigenic surface determinant protein OA3, Integrin-associated protein

PRODUCT SPECIFICATION

Molecular Weight

14.7 kDa (129aa)

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured by its binding ability in a functional ELISA with Human SIRP gamma/CD172g (CAT# ATGP4030)

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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Description

CD47, also known as leukocyte surface antigen CD47 isoform 1, has a role in both cell adhesions by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. It plays an important role in memory formation and synaptic plasticity in the hippocampus. Receptor for SIRPA prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. Recombinant human CD47, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

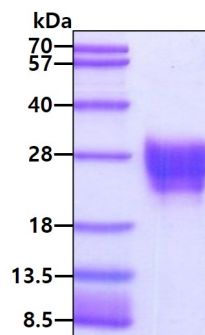
QLLFNKTKSV EFTFCNDTVV IPCFVTNMEA QNTTEVYVKW KFKGRDIYTF DGALNKSTVP TDFSSAKIEV SQLLKGDSL
KMDKSDAVSH TGNYTCEVTE LTREGETIIE LKYRVVSWFS PNE<HHHHHH>

General References

Iwamoto C et al., (2014) Exp. Hematol. 42(3):163-171.
Wang Y et al., (2013) Mol. Ther. 21(10):1919-1929.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Biological Activity

Human CD47 is coated at 1 ug/ml (100 ul/well) can bind Human SIRP gamma/CD172g (CAT# ATGP4030) in a Functional ELISA assay.

