

Recombinant human CD47 protein

Catalog Number: ATGP3320

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

19-141aa

UniProt No.

Q08722

NCBI Accession No.

NP_001768

Alternative Names

Leukocyte surface antigen CD47 isoform 1, CD47, IAP, MER6, OA3

PRODUCT SPECIFICATION

Molecular Weight

40.9 kDa (362aa)

Concentration

0.5mg/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)

Tag

hIgG-His-Tag

Application

SDS-PAGE

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

Description

CD47, also known as leukocyte surface antigen CD47 isoform 1, is a member of immunoglobulin superfamily. It has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. Also, it plays an important role in memory formation and synaptic plasticity in the hippocampus. This protein is a receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits

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cytokine production by mature dendritic cells. CD47 mediates cell-cell adhesion, enhances super antigen-dependent T-cell-mediated proliferation and co-stimulates T-cell activation. It may play a role in membrane transport and/or integrin dependent signal transduction and prevent premature elimination of red blood cells. Recombinant human CD47, fused to hlgG-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 SQLLKGDASL
KMDKSDAVSH TGNYTCEVTE LTREGETIIE LKYRVVSWFS PNE<LEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL
MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNKALPAP
IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNGQPENNY KTTTPVLDSD GSFFLYSKLT
VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL SLSPGKHHHH HH>

General References

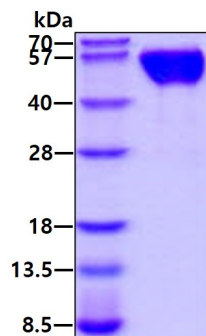
Iwamoto C., et al. (2014) *Exp. Hematol.* 42:163-171.

Wang Y., et al. (2013) *Mol. Ther.* 21:1919-1929.

Jiang H., et al. (2013) *Leuk. Res.* 37:907-910.

DATA

SDS-PAGE



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