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Recombinant human CD47 protein

Catalog Number: ATGP4070

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

19-141aa

UniProt No.

008722

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)

Biological Activity

Measured by its binding ability in a functional ELISA with Human SIRP alpha/CD172a (CAT# ATGP4069). The ED50 range ≤ 100 ng/ml.

Tag

hlgG-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, 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 cytokine production by mature dendritic cells. CD47 mediates cell-cell adhesion, enhances super antigendependent 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

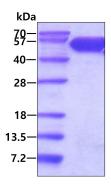
QLLFNKTKSV EFTFCNDTVV IPCFVTNMEA QNTTEVYVKW KFKGRDIYTF DGALNKSTVP TDFSSAKIEV SQLLKGDASL KMDKSDAVSH TGNYTCEVTE LTREGETIIE LKYRVVSWFS PNE<LEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNGQPENNY KTTPPVLDSD 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

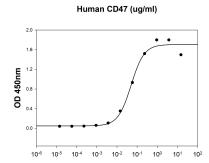
Biological Activity



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Human SIRP alpha/CD172a (CAT# ATGP4069) is coated at 2 ug/ml (100 ul/well) can bind Human CD47. The ED50 range \leq 100 ng/ml.

