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 hlgG-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



NKMAXBiO we support you, we believe in your research Recombinant human CD47 protein Catalog Number: ATGP3320

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 hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

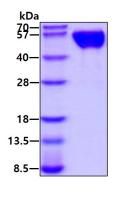
QLLFNKTKSV EFTFCNDTVV IPCFVTNMEA QNTTEVYVKW KFKGRDIYTF DGALNKSTVP TDFSSAKIEV SQLLKGDASL KMDKSDAVSH TGNYTCEVTE LTREGETIIE LKYRVVSWFS PNE<LEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG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