

Cynomolgus CD47 Protein (Fc Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 90869-C02H

General Information

Gene Name Synonym:

CD47

Protein Construction:

A DNA sequence encoding the cynomolgus CD47 (XP_005548291.1) (Met1-Asn142) was expressed with the Fc region of human IgG1 at the C-terminus.

Source: Cynomolgus

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE.

Endotoxin:

< 1.0 EU per µg protein as determined by the LAL method.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Gln 19

Molecular Mass:

The recombinant cynomolgus CD47 consists of 362 amino acids and predicts a molecular mass of 40.7 kDa.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

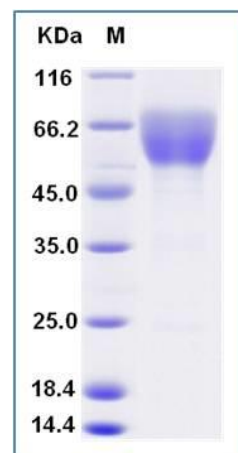
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

CD47 contains 1 Ig-like V-type (immunoglobulin-like) domain and is a receptor for the C-terminal cell binding domain of thrombospondin. It may play a role in membrane transport and signal transduction. CD47 is also a membrane protein, which is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. It is very broadly distributed on normal adult tissues, as well as ovarian tumors, being especially abundant in some epithelia and the brain. CD47 may play a role in membrane transport and/or integrin dependent signal transduction. It may prevent premature elimination of red blood cells. It also may be involved in membrane permeability changes induced following virus infection. By acting as an adhesion receptor for THBS1 on platelets, CD47 plays a role in both cell adhesion and in the modulation of integrins. It also plays an important role in memory formation and synaptic plasticity in the hippocampus.

References

1. Brown EJ, *et al.* (2001) Integrin-associated protein (CD47) and its ligands. *Trends Cell Biol.* 11(3): 130-5.
2. Oldenburg PA. (2004) Role of CD47 in erythroid cells and in autoimmunity. *Leuk Lymphoma.* 45(7): 1319-27.
3. Kaczorowski DJ, *et al.* (2007) Targeting CD47: NO limit on therapeutic potential. *Circ Res.* 100(5): 602-3.

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