

Rev02
 Update: Aug,08,2025

DATASHEET

CD47, His, Human

Cat. No.: Z04213

Product Introduction

Species	Human
Protein Construction	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> CD47 (Gln19-Pro139) Accession # Q08722-1 </div> <div style="background-color: #55a868; color: white; padding: 5px; text-align: center;"> His </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> N-term C-term </div>
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized CD47, His, Human at 2µg/ml (100µl/well) on the plate can bind Human SIRP alpha, hFc Tag. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	14.5 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 40-55 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

Background

Target Background : CD47 (Cluster of Differentiation 47) also known as integrin associated protein (IAP) is a transmembrane protein that in humans is encoded by the CD47 gene. CD47 belongs to the immunoglobulin superfamily and partners with membrane integrins and also binds the ligands thrombospondin-1 (TSP-1) and signal-regulatory protein alpha (SIRPα). CD-47 acts as a don't eat me signal to macrophages of the immune system which has made it a potential therapeutic target in some cancers.

Synonyms : CD47 glycoprotein; CD47 molecule; CD47; IAP; OA3; MER6

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