

Rev02  
 Update: Aug,08,2025
**DATASHEET**

# CD47 hFc Chimera, Human

Cat. No.: Z04214

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> <b>CD47 (Gln19-Pro139)</b>            Accession # Q08722-1         </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center;"> <b>hFc</b> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>N-term</span> <span>C-term</span> </div>
<b>Purity</b>	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized Human SIRP alpha, His Tag at 1µg/ml (100µl/Well) on the plate can bind CD47 hFc Chimera, Human. Test result was comparable to standard batch
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	40.5 kDa
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 55-65 kDa based on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage &amp; Stability</b>	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

**For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.**

Confidential and Privileged



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