

Rev03  
 Update: Aug,08,2025
**DATASHEET**

# PS20, His, Cynomolgus

Cat. No.: Z04900

## Product Introduction

<b>Species</b>	Cynomolgus
<b>Protein Construction</b>	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #cccccc; padding: 2px 5px; margin-right: 5px;">His</div> <div style="background-color: #0056b3; color: white; padding: 2px 5px; margin-right: 5px;">PS20 (Lys32-Gln192)</div> <div style="background-color: #0056b3; color: white; padding: 2px 5px;">Accession # XP_015298715.2</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 2px;"> <span>N-term</span> <span>C-term</span> </div>
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.
<b>Expression System</b>	E.coli
<b>Theoretical Molecular Weight</b>	18.77 kDa
<b>Apparent Molecular Weight</b>	The protein migrates to 25-28 kDa based on Bis-Tris PAGE result.
<b>Formulation</b>	Supplied as 0.22µm filtered solution in 20mM PB, 500mM NaCl, 200mM Arginine (pH 7.4).
<b>Concentration</b>	Verified by one or more methods from A280/Bioactivity/BCA/Bradford.
<b>Storage &amp; Stability</b>	This product remains stable for 6 months at -80°C or below. Avoid repeated freeze-thaw cycles.

## Background

**Target Background :** The whey acidic protein family member, WFDC1/ps20 is a permissivity factor in HIV infection. Herein we describe a contrasting role for ps20 in limiting MHV-1 infection. Intranasal MHV-1 infection produces a respiratory infection in mice. Using ps20 knockout mice we provide evidence that intranasal MHV-1 infection results in increased lung viral titers in ps20(-/-) compared to ps20(/) mice. Roles for ps20 in regulating expression of neutrophil-specific chemotactic factors, thereby potentially modulating neutrophil migration, and in modulating neutrophil susceptibility to MHV-1 infection.

**Synonyms :** Ps20; Wfdc1

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

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