

Rev03
 Update: Aug,08,2025

DATASHEET

NPR1/NPRA mFc Chimera, Cynomolgus

Cat. No.: Z04885

Product Introduction

Species	Cynomolgus
Protein Construction	<div style="display: flex; align-items: center; gap: 10px;"> <div style="background-color: #0056b3; color: white; padding: 5px; font-size: 0.8em;"> NPR1/NPRA (Gly33-Glu473) Accession # XP_005541810.1 </div> <div style="background-color: #76b82a; color: white; padding: 5px; font-size: 0.8em;"> mFc (IgG1) </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px; font-size: 0.7em;"> N-term C-term </div>
Purity	> 95% as determined by BisTris PAGE
Endotoxin Level	Less than 1EU per µg by the LAL method.
Expression System	HEK293
Theoretical Molecular Weight	74.56 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 80-110 kDa based on Bis-Tris PAGE result.
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Concentration	Verified by one or more methods from A280/Bioactivity/BCA/Bradford.
Storage & Stability	This product remains stable for 6 months at -80°C or below. Avoid repeated freeze-thaw cycles.

Background

Target Background : NPR1 (natriuretic peptide receptor 1), a receptor of ANP (atrial natriuretic peptide) which acting through NPR1, provokes hypotension. NPR1 was abundantly expressed in endothelial cells and smooth muscle cells of small arteries and arterioles. NPR1 plays a crucial role in ANP-mediated blood pressure regulation, presumably by a mechanism that is RGS2-dependent in the acute phase and RGS2-independent in the chronic phase.

Synonyms : ANP-A; ANPR-A; NPR-A; GC-A; ANPRA

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

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