

Rev03
 Update: Aug,08,2025

DATASHEET

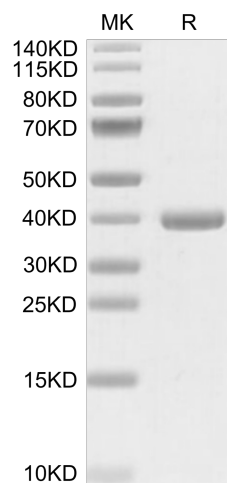
EREG hFc Chimera, Human

Cat. No.: Z05262

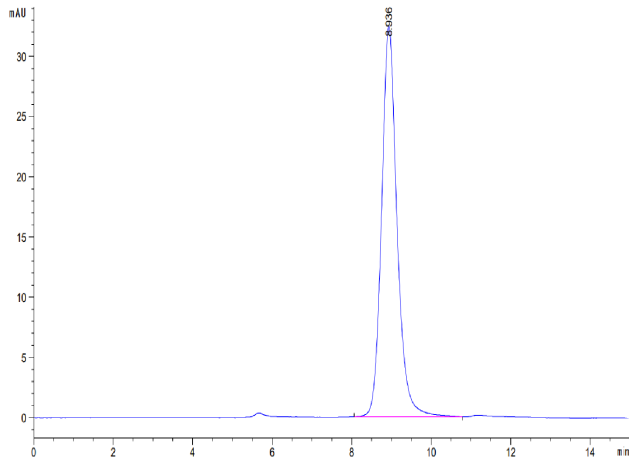
Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #4a7ebb; color: white; padding: 5px; margin-right: 5px;">hFc</div> <div style="background-color: #0070c0; color: white; padding: 5px; margin-right: 5px;">EREG (Val63-Leu108) Accession # O14944</div> </div> <div style="display: flex; justify-content: space-around; font-size: small; 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.
Expression System	HEK293
Theoretical Molecular Weight	32.6 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 37-42 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22 µm 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.

Examples



EREG hFc Chimera, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



The purity of EREG hFc Chimera, Human is greater than 95% as determined by SEC-HPLC.

Background

Target Background : Epidermal growth factor receptor (EGFR) regulates many crucial cellular programs, with seven different activating ligands shaping cell signaling in distinct ways. EGFR ligands epiregulin (EREG) and epigen (EPGN) stabilize different dimeric conformations of the EGFR extracellular region. As a consequence, EREG or EPGN induce less stable EGFR dimers than EGF-making them partial agonists of EGFR dimerization. Unexpectedly, this weakened dimerization elicits more sustained EGFR signaling than seen with EGF, provoking responses in breast cancer cells associated with differentiation rather than proliferation.

Synonyms : Proepiregulin; EPR; Epiregulin; EREG; ER

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

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