

Rev04  
 Update: Mar,01,2022

**DATASHEET**

# EGFR, His, Human

Cat. No.: Z03194

## 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>EGFR/ErbB1 (Leu25-Ser645)</b>            Accession # P00533-1         </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center;"> <b>Poly-His</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 analyzed by SDS-PAGE > 95% as analyzed by HPLC
<b>Endotoxin Level</b>	< 0.2 EU/μg of protein by gel clotting method
<b>Expression System</b>	Sf9 insect cells
<b>Apparent Molecular Weight</b>	~80 kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O up to 100 μg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Background

**Target Background :** EGF Receptor, also known as ERBB, ERBB1 and HER1, is a type I transmembrane protein belonging to the tyrosine protein kinase family. It belongs to a family of tyrosine kinase receptors including Human EGF Receptors (HER) 2, 3, and 4 which all play important roles in cell growth and differentiation. Their primary ligands are EGF, Heparin-Binding EGF and Transforming Growth Factor  $\alpha$ . Upon ligand binding, EGFR undergoes asymmetric dimerization, composed of an “activator” and a “receiver”. EGFR and its family members are dysregulated in numerous cancers. In particular, EGFR is overexpressed in many epithelial solid tumors. Evidence suggests EGFR is an excellent target for pharmacologic intervention in Non Small Cell Lung Cancer (NSCLC) due to its high level of expression and prominent role in tumor growth and metastasis.

**Synonyms :** ERBB; ERBB1; HER1

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.