

Rev04
 Update: Mar,01,2022

DATASHEET

EGF R, His, Human

Cat. No.: Z03202

Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; justify-content: space-around;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> EGFR/ErbB1 (Leu25-Ser645) Accession # P00533-1 </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center;"> Poly-His </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> N-term C-term </div>
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED ₅₀ < 1.0 μg/ml, measured in a bioassay using 3T3 cells in the presence of 25.0 pg/ml human EGF.
Expression System	CHO
Apparent Molecular Weight	95~115 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	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 ₂ O or PBS up to 100 μg/ml.
Storage & Stability	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 α . 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.