

For Research Use Only

Recombinant Human EGFR protein (hFc Tag)



Catalog Number: Eg0495

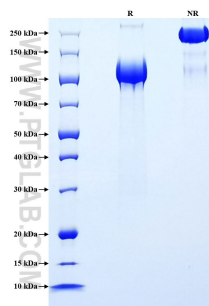
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: hFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/μg protein, LAL method Source: HEK293-derived Human EGFR protein Leu25-Ser645 (Accession# P00533-1) with a human IgG1 Fc tag at the C-terminus. GeneID: 1956 Accession: P00533-1 Predicted Molecular Mass: 94.6 kDa SDS-PAGE: 100-130 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	The epidermal growth factor receptor (EGFR) belongs to the ErbB family of receptor tyrosine kinases (RTKs) and exerts critical functions in epithelial cell physiology. EGFR is a receptor of tyrosine kinase (RTK). It is consisted of a C-terminus intracellular region that possesses the kinase activity, and an N-terminus extracellular ligand-binding site, a hydrophobic transmembrane domain. EGFR is frequently mutated and/or overexpressed in different types of human cancers and is the target of multiple cancer therapies currently adopted in the clinical practice. Mutations in this gene are associated with lung cancer.		
References	1. Schlessinger J. et al. (2014). Cold Spring Harb Perspect Biol. 6(3). 2. Yoshida T. et al. (2010). Biochem Pharmacol. 80(5):613-23. 3. Wilson KJ. et al. (2012). Growth Factors. 30(2):107-16. 4. Sigismund S. et al. (2018). Mol Oncol. 12(1):3-20.		
Synonyms	EGFR, EGF R, EGF Receptor , Epidermal growth factor receptor, Proto-oncogene c-ErbB-1		

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Human EGFR was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.