

RP03370LQ

Leader in Biomolecular Solutions for Life Science



www.abclonal.com

Recombinant Human HER1/ERBB1/EGFR (L858R) Kinase

Catalog No.: RP03370LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Baculovirus- 1956 Insect Cells		P00533

Tags

No tag

Synonyms

EGFR; ERBB; ERBB1; HER1; Epidermal growth factor receptor

Product Information

Source

Purification

≥ 90 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Supplied as a 0.22 μm filtered solution in 50 mM Tris-HCl, 200 mM NaCl, 5% glycerol. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution

Please use running water to thaw it quickly.

Contact



www.abclonal.com

Background

The epidermal growth factor receptor (EGFR; ErbB-1; HER1 in humans) is a member of the ErbB family of receptors, a subfamily of four closely related receptor tyrosine kinases: EGFR (ErbB-1), HER2/neu (ErbB-2), Her 3 (ErbB-3) and Her 4 (ErbB-4). EGFR is activated by binding of its specific ligands, including epidermal growth factor (EGF) and transforming growth factor alpha (TGF-α). Upon activation by its growth factor ligands, EGFR undergoes a transition from an inactive monomeric form to an active homodimer, which stimulates its intrinsic intracellular protein-tyrosine kinase activity. Deficient signaling of the EGFR and other receptor tyrosine kinases in humans is associated with diseases such as Alzheimer's, while over-expression is associated with the development of a wide variety of tumors.

Basic Information

Description

Recombinant Human HER1/ERBB1/EGFR (L858R) Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Gly696-Gly1022 (L858R)) of Human EGFR (Accession #P00533) fused with No tag.

Bio-Activity

The activity of EGFR is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage

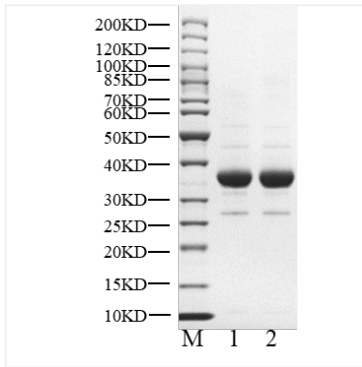
Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

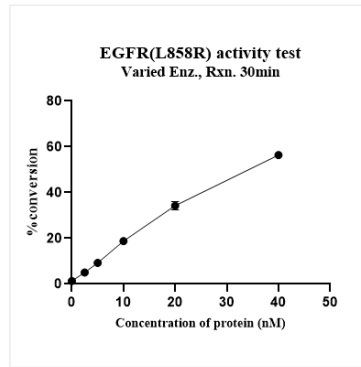
Avoid repeated freeze/thaw cycles.

* For your safety and health, please wear a lab coat and disposable gloves when handling.

Validation Data



Recombinant Human HER1/ERBB1/EGFR (L858R) Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



The activity of EGFR is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.