

# Recombinant Human HER1/ERBB1/EGFR (L858R) Kinase

Catalog No.: RP03370LQ

## Sequence Information

**Species**      **Gene ID**  
Human            1956

**Swiss Prot**    **Tags**  
P00533          No tag

### Synonyms

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

## Product Information

**Source**            **Purification**  
Baculovirus-  
Insect Cells      ≥ 90 % as  
                         determined by  
                         SDS-PAGE; ≥ 90  
                         % as determined  
                         by HPLC.

**Calculated MW** **Observed MW**  
38.6 kDa          30-40 kDa

### 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.

## 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.

### 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

Lyophilized proteins are shipped at ambient temperature.  
Liquid proteins are shipped at frozen temperature with dry ice.  
Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -70°C

### Operational Notes

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

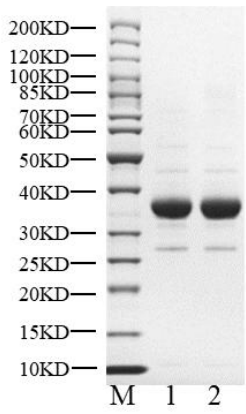
## Contact

☎ | 400-999-6126

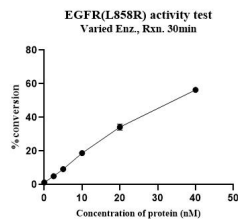
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# Validation Data



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



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