

Datasheet for ABIN7597377

EGFR Protein (AA 301-645) (His tag)



[Go to Product page](#)

Overview

Quantity:	10 µg
Target:	EGFR
Protein Characteristics:	AA 301-645
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EGFR protein is labelled with His tag.

Product Details

Purpose:	Recombinant human EGFR(301-645) Protein with C-terminal 10xHis tag
Sequence:	EGFR(Val301-Ser645) 10xHis tag
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	EGFR
Alternative Name:	EGFR (EGFR Products)
Background:	ERBB, ERBP, HER1, mENA, ERBB1, NNCIS, PIG61, NISBD2 The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor, thus inducing

Target Details

receptor dimerization and tyrosine autophosphorylation leading to cell proliferation. Mutations in this gene are associated with lung cancer. EGFR is a component of the cytokine storm which contributes to a severe form of Coronavirus Disease 2019 (COVID-19) resulting from infection with severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2). [provided by RefSeq, Jul 2020]

Molecular Weight: predicted molecular mass of 39.0 kDa after removal of the signal peptide. The apparent molecular mass of EGFR(301-645)-His is 55-100 kDa due to glycosylation.

UniProt: [P00533](#)

Pathways: [NF-kappaB Signaling](#), [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Stem Cell Maintenance](#), [Hepatitis C](#), [Positive Regulation of Response to DNA Damage Stimulus](#), [Interaction of EGFR with phospholipase C-gamma](#), [Thromboxane A2 Receptor Signaling](#), [EGFR Downregulation](#), [S100 Proteins](#)

Application Details

Application Notes: Extracellular Domain Proteins (ECD) can be used as:

- Immunogens for antibody drug development
- Reagents used for CAR-T positive cell monitoring
- Reagents for antibody screening and functional testing
- Reagents for antibody affinity measurement

Comment: The protein was made using HEK293 mammalian cell secretion expression system to ensure the close-to-native structures and post-translational modifications of the target protein.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization.

Storage: -20 °C, -80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).
Lyophilized proteins are shipped at ambient temperature.

Expiry Date: 12 months