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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Data Sheet

EGFR (T790M, C797S, L858R), His-Tag, GST-tag

Human, Recombinant, C-terminal His-Tag,
 N-terminal GST tag

Catalog #: 40351

Lot #: 171103-G1 **Conc.:** 0.25 mg/ml

Formulated in: 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 3 mM DTT, 0.04% Tween-20 and 20% Glycerol.

Stability: At least 6 months at -80°C . Avoid freeze/thaw cycles.

References:

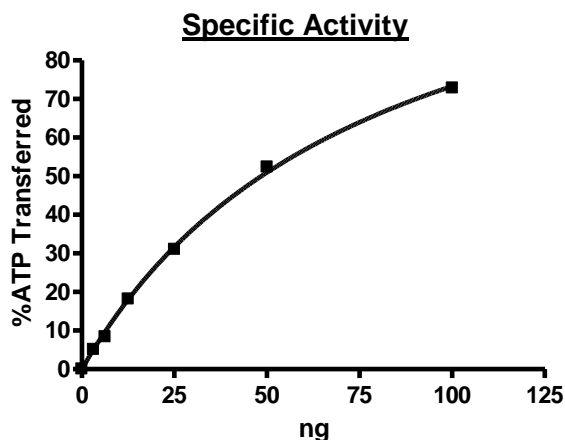
1. Thress, K.S., *et al.*, *Nat. Med.* 2015; **21**: 560-562.
2. Niederst, M.J., *et al.*, *Clin. Canc. Res.* 2015; DOI: 10.1158/1078-0432.CCR-15-0560.

Description: Human EGFR (T790M, C797S, L858R), also known as, Epidermal Growth Factor Receptor, ERBB, ErbB-1, HER1, and MENA, GenBank Accession No. NM_005228, a.a. 668-1210 with C-terminal His-Tag and N-terminal GST tag, expressed in baculovirus expression system. MW = 88 kDa.

Specific Activity: ≥ 150 pmol/min/ μg . Assay was done in Kinase buffer containing 2 mM DTT using Poly-(Glu4:Tyr) substrate (0.2 mg/ml) and 20 μM ATP. Reaction was done at 30°C for 40 min. Amount of ATP transferred was calculated using Kinase-Glo reagent (Promega).

Application: Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Quality Assurance

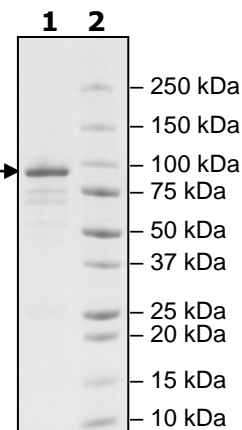


**4-20% SDS-PAGE
 Coomassie staining**

Lane 1:
 2 μg EGFR
 (T790M, C797S, L858R)

Lane 2:
 Protein Marker

MW: 88 kDa
Purity: $\geq 80\%$



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Sequence

MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNL
PYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGAVLDIRYGVSRIA
YSKDFETLKVDFLSKLPEMLKMFKDRDLCHKTYLNGDHVTHPDFMLYDALDVVLYM
DPMCLDAFPKLVCFKKRIEAI PQIDKYLKSSKYIAWPLQGWQATFGGGDH
PPKSDPMRRRHIVRKRTLRLQLQERELVEPLTPSGEAPNQALLRILKETEFKKIK
VLGSGAFGTVYKGLWIPEGEKVKIPVAIKELREATSPKANKEILDEAYVMASVDN
PHVCRLLGICLTSTVQLIMQLMPFGSLLDYVREHKDNIGSQYLLNWCVQIAKGMN
YLEDRLVHRDLAARNVLVKTPOHVKITDFGRAKLLGAEKEYHAEGGKVP IKWM
ALESILHRIYTHQSDVWSYGVTVWELMTFGSKPYDGI PASEISSILEKGERLPQP
PICTIDVYMIMVKCWMIDADSRPKFRELI IEFKMARDPQRYLVIQGDERMHLPS
PTDSNFYRALMDEEDMDDVDADEYLI PQQGGFFSSPSTSRTPLLSLSATSNNST
VACIDRNLQSCPIKEDSFLQRYSSDPTGALTEDSIDDTFLPVPEYINQSVKRP
AGSVQNPVYHNQPLNPAPSRDPHYQDPHSTAVGNPEYLNTVQPTCVNSTFDS PAH
WAQKGS HQISLDNPDYQQDFFPKEAKPNGIFKGSTAENAEYLRVAPQSSEFIGAH
HHHHH

Red: GST-tag

Black: EGFR (variant 1) (aa 668-1210(end))

Green: three mutations (T790M, C797S, L858R)

Blue: His-tag

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