

Kinase mutant panel performed with ³³PanQinase[™] assay technology.

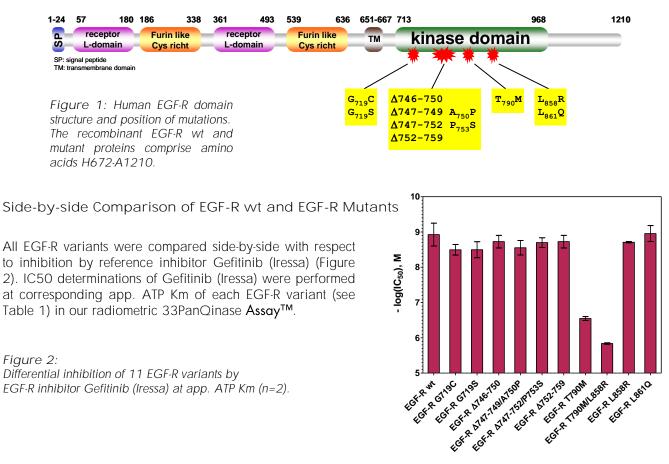
EGF-R Kinase H672-A1210 Mutant Panel

Epidermal growth factor receptor

Synonyms: ERBB, ERBB1

EGF-R plays a pivotal role in tumor growth, metastasis and angiogenesis, and in addition in tumor resistance to chemotherapy and radiotherapy. EGF-R is therefore a therapeutical target in many human cancer indications1. Many pathophysiological and oncogenic somatic EGF-R mutants have been described, in particular in non-small cell lung cancer2. Furthermore, some EGF-R mutations confer resistance against the therapeutically used EGF-R kinase inhibitor Gefitinib (Iressa)3.

EGF-R wildtype (wt) and ten pathophysiologically relevant EGF-R mutants are available as recombinant human active protein kinases and for compound testing services (Figure 1; see also reverse side).



References

- ¹ ZD1839 (Iressa): An Orally Active Inhibitor of Epidermal Growth Factor Signaling with Potential for Cancer Therapy: Alan E. Wakeling et al.; Cancer Research 62, 5749–5754 (2002)
- ² The EGFR mutation and its correlation with response of gefitinib in previously treated Chinese patients with advanced nonsmall-cell lung cancer: X. T. Zhang; Annals of Oncology 16, 1334-1342 (2005)
- ³ Rational, biologically based treatment of EGFR mutant non-small-cell lung cancer: William Pao and Juliann Chmielecki; Nature Reviews Cancer 10, 760-774 (2010)

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