An ultra-potent inhibitor of epidermal growth factor receptor tyrosine kinase (EGFRK), with an IC\textsubscript{50} of 25 pM. Inhibits other tyrosine kinases at micromolar or higher concentrations. It selectively blocks EGF-mediated cellular processes including mitogenesis, early gene expression and oncogenic transformation\textsuperscript{1}. Inhibits the growth of a number of cancer cell lines\textsuperscript{2}. An extremely useful tool for exploring EGF-mediated cellular signaling\textsuperscript{3}. 

1) Fry \textit{et al.} (1994), \textit{A specific inhibitor of the epidermal growth factor receptor tyrosine kinase}; \textit{Science}, \textbf{265} 1093  
2) Bos \textit{et al.} (1997), \textit{PD153035, a tyrosine kinase inhibitor, prevents epidermal growth factor receptor activation and inhibits growth of cancer cells in a receptor number-dependent manner}; \textit{Clin. Cancer Res.}, \textbf{3} 2099  

**PHYSICAL DATA**

- Molecular Weight: 396.67  
- Molecular Formula: C\textsubscript{16}H\textsubscript{14}BrN\textsubscript{3}O\textsubscript{2} \cdot \text{HCl}  
- Purity: 98% by TLC  
- NMR: (Conforms)  
- Solubility: DMSO (up to 5 mg/ml, with warming)  
- Physical Description: White or off-white solid  
- Storage and Stability: Store as supplied desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**

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