

Product Name:	Erlotinib hydrochloride
Product Number:	E017
CAS Number:	183319-69-9
Molecular Formula:	$C_{22}H_{23}N_3O_4$
Molecular Weight:	393.43
Form:	Powder
Appearance:	White or off-white powder
Solubility:	Water: Very slightly soluble Acid (pH 2): 0.4 mg/mL Note: Maximum solubility can be attained by plain water at 0.8 mg/mL
Source:	Synthetic
Melting Point:	223-228 °C
Storage Conditions:	2-8 °C
Description:	Erlotinib hydrochloride is a drug used to treat non-small cell lung cancer, pancreatic cancer and several other types of cancer. It is a tyrosine kinase inhibitor, which acts on the epidermal growth factor receptor (EGFR).
Mechanism of Action:	Erlotinib is an epidermal growth factor receptor (EGFR) inhibitor. Erlotinib specifically targets the EGFR tyrosine kinase ATP binding site, which is highly expressed and occasionally mutated in various forms of cancer. Erlotinib prevents EGFR homodimer formation, a conformational change required for signal transmittance.