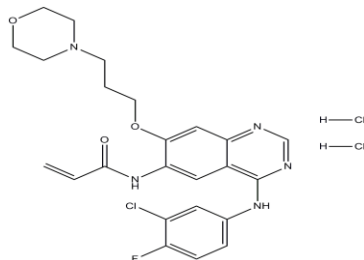


## Canertinib.2HCl (CI-1033, PD183805)

CATALOG #: 1617-5 5 mg  
1617-50 50 mg

LOT #: \_\_\_\_\_

### STRUCTURE:



MOLECULAR FORMULA:  $C_{24}H_{25}ClFN_5O_3 \cdot 2HCl$

MOLECULAR WEIGHT: 558.86

CAS 289499-45-2

APPEARANCE: Solid

SOLUBILITY: DMSO (100 mg/ml)

PURITY:  $\geq 99\%$

STORAGE: Keep cool and dry, Store at  $-20^{\circ}C$

**DESCRIPTION:** Canertinib is an irreversible tyrosine kinase inhibitor. It not only inhibits tyrosine phosphorylation but also enhances ubiquitinylation and accelerates endocytosis and subsequent intracellular destruction of ErbB-2 molecules. Canertinib alkylates a cysteine residue specific to ErbB receptors. The degradative pathway of ErbB receptor tyrosine kinases stimulated by tyrosine kinase inhibitors appears to be chaperone mediated, and thus is similar to the pathways activated by the heat shock protein 90 (Hsp90) antagonist geldanamycin and by stress-induced mechanisms.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**FOR RESEARCH USE ONLY! Not to be used in humans.**

### RELATED PRODUCTS:

#### Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

#### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

#### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

#### Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

#### Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

#### Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

#### Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- $\beta$ -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

#### Growth Factors and Cytokines

#### Monoclonal and Polyclonal Antibodies