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Datasheet

Ver.1 Date : 20190227

Gefitinib

Cat# C4095

Storage at Room temperature

INTRODUCTION

Gefitinib is a selective epidermal growth factor receptor (EGFR)-tyrosine kinase inhibitor and has been shown to increase phosphorylation of c-Jun NH2-terminal kinase (JNK) and p38 mitogen-activated protein kinase (MAPK) in HaCaT cells. Studies suggest that gefitinib can enhance keratinocyte apoptosis via an EGFR-independent JNK-activation pathway. Research indicates that gefitinib can induce apoptosis in several cell lines including, HaCaT cells, KG-1, P39, and primary CD34+ myeloblasts.

INFORMATION

Chemical Formula : $C_{22}H_{24}ClFN_4O_3$

CAS No. : 184475-35-2

Molecular Weight : 446.9

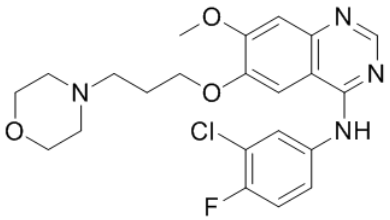
Purity : ≥99%

Solubility : Soluble in DMSO (89 mg/ml at 25 °C), methanol (20 mg/ml), ethanol (4 mg/ml at 25 °C), DMF (20 mg/ml), and water (<1 mg/ml at 25 °C).

IC_{50} : Gefitinib (ZD-1839) is an EGFR inhibitor for Tyr1173, Tyr992, Tyr1173 and Tyr992 in the NR6wtEGFR and NR6W cells with IC50 of 37 nM, 37nM, 26 nM and 57 nM, respectively.

Alias : N-(3-Chloro-4-fluoro-phenyl)-7-methoxy-6-(3-morpholin-4-ylpropoxy)quinazolin-4-amine; ZD 1839; Iressa; ZD-1839 ; ZD1839

CHEMICAL STRUCTURES



PRODUCT USE LIMITATION

These products are intended for research use only.