LKT Laboratories, Inc.

Gefitinib

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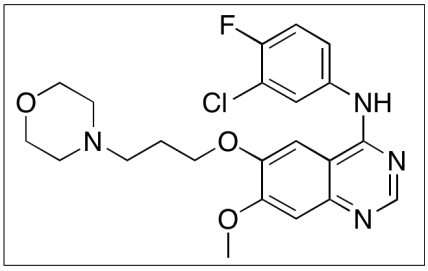
Product Information

Product ID G1721
CAS No. 184475-35-2
Chemical Name N-(3-chloro-4-fluorophenyl)-7-methoxy-6-(3-morpholin-4-ylpropoxy) quinazolin-4-amine
Synonym

Formula $C_{22}H_{24}ClFN_4O_3$
Formula Wt. 446.90
Melting Point 212-214°C
Purity ≥98%
Solubility DMSO (20 mg/ml), DMF (20 mg/ml)



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
G1721	100 mg	$171.30
G1721	250 mg	$301.70
G1721	1 g	$880.30

Store Temp Ambient
Ship Temp Ambient

Description Gefitinib is an anticancer chemotherapeutic compound that inhibits mutant isoforms of EGFR. Across a variety of cancer cell lines, gefitinib increases poly(ADP)-ribose polymerase (PARP) cleavage and apoptosis, resulting in inhibition of cell growth. Gefitinib also induces expression of PPARγ in cellular models, likely through activation of transcription factor CCAT/enhancer binding protein β (CEBP-β). Gefitinib's inhibition of EGFR also results in inhibition of heat shock protein 70 (HSP70), which can exacerbate pulmonary fibrosis. Additionally, gefitinib increases phosphorylation of p38 MAPK and JNK, inducing apoptosis in keratinocytes. This compound also promotes differentiation of acute myelogenous leukemia cells in vitro.

References

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