# Data Sheet (Cat.No.T40785)

TargetMol

## Gefitinib impurity 1

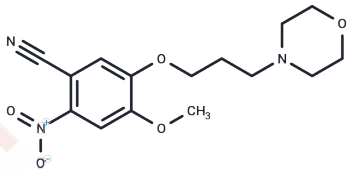
### Chemical Properties

CAS No. : 675126-26-8

Formula: C15H19N3O5

Molecular Weight: 321.33

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



### Biological Description

| | |
|---|---|
| Description | Gefitinib impurity 1 is a compound derived from Gefitinib, a potent and selective EGFR tyrosine kinase inhibitor (IC 50 = 33 nM). This orally active compound selectively inhibits tumor cell growth stimulated by EGF (IC 50 = 54 nM) and inhibits EGFR autophosphorylation induced by EGF in tumor cells. Additionally, Gefitinib induces autophagy and exhibits antitumor activity. |
| Targets(IC50) | Others,Drug Metabolite |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 3.1121 mL | 15.5603 mL | 31.1207 mL |
| 5 mM | 0.6224 mL | 3.1121 mL | 6.2241 mL |
| 10 mM | 0.3112 mL | 1.556 mL | 3.1121 mL |
| 50 mM | 0.0622 mL | 0.3112 mL | 0.6224 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wakeling AE, et al. ZD1839: an orally active inhibitor of epidermal growth factor signaling with potential for cancer therapy. Cancer Res. 2002 Oct 15;62(20):5749-54.



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