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**Product Data Sheet**

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Product Name: Gefitinib impurity 2

Cat. No.: GC60869

**Chemical Properties**

Cas. No. 246512-44-7

SMILES O=C(N)C1=CC(OCCCN2CCOCC2)=C(OC)C=C1NFormula C15H23N3O4 M.Wt 309.36

Solubility DMSO : 100 mg/mL (323.25 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Gefitinib impurity 2 is the impurity of Gefitinib. Gefitinib (ZD1839) is a potent, selective and orally active EGFR tyrosine kinase inhibitor with an IC<sub>50</sub> of 33 nM. Gefitinib selectively inhibits EGF-stimulated tumor cell growth (IC<sub>50</sub> of 54 nM) and that blocks EGF-stimulated EGFR autophosphorylation in tumor cells. Gefitinib also induces autophagy. Gefitinib has antitumour activity[1][2].

[1]. 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.

[2]. Pedersen MW, et al. Differential response to gefitinib of cells expressing normal EGFR and the mutant EGFRvIII. *Br J Cancer.* 2005 Oct 17;93(8):915-23.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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