

---

## Product Data Sheet

---

Product Name: O-Desmethyl gefitinib-d8

Cat. No.: GC68321

### Chemical Properties

Cas. No.

Formula C<sub>21</sub>H<sub>14</sub>D<sub>8</sub>ClFN<sub>4</sub>O<sub>3</sub>

M.Wt

440.93

Solubility

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

IC<sub>50</sub>: 36 nM (EGFR)<sup>[2]</sup>

O-Desmethyl gefitinib D8 is a deuterium labeled O-Desmethyl gefitinib. O-Desmethyl gefitinib is an active metabolite of Gefitinib in human plasma. The formation of O-desmethyl gefitinib is dependent on CYP2D6 activity. O-desmethyl gefitinib inhibits **EGFR** with an **IC<sub>50</sub>** of 36 nM in subcellular assays<sup>[1][2]</sup>.

[1]. Kobayashi H, et al. Effects of polymorphisms in CYP2D6 and ABC transporters and side effects induced by gefitinib on the pharmacokinetics of the gefitinib metabolite, O-desmethyl gefitinib. *Med Oncol.* 2016 Jun;33(6):57.

[2]. McKillop D, et al. Minimal contribution of desmethyl-gefitinib, the major human plasma metabolite of gefitinib, to epidermal growth factor receptor (EGFR)-mediated tumour growth inhibition. *Xenobiotica.* 2006 Jan;36(1):29-39.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA