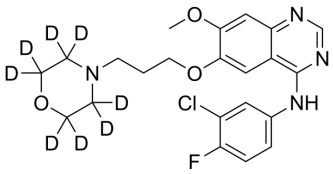
Gefitinib-d_8

Cat. No.:	HY-50895S
CAS No.:	857091-32-8
Molecular Formula:	$C_{22}H_{16}D_8ClFN_4O_3$
Molecular Weight:	454.95
Target:	EGFR; Autophagy
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Autophagy

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Gefitinib-d_8 is a deuterium labeled Gefitinib. Gefitinib is an EGFR tyrosine kinase inhibitor, with IC50 of 2-37 nM in NR6wtEGFR cells[1][2].
IC_{50} & Target	IC50: 37 nM (Tyr1173 site, in NR6wtEGFR cells), 37 nM (Tyr992 site, in NR6wtEGFR cells)[1]

REFERENCES

[1]. 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.

[2]. Moasser MM, et al. The tyrosine kinase inhibitor ZD1839 ("Iressa") inhibits HER2-driven signaling and suppresses the growth of HER2-overexpressing tumor cells. Cancer Res. 2001 Oct 1;61(19):7184-8.

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