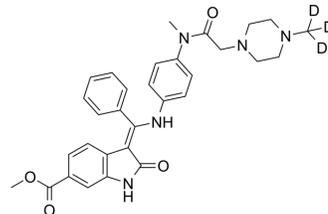


## Nintedanib-d3

<b>Cat. No.:</b>	HY-50904S
<b>CAS No.:</b>	1624587-84-3
<b>Molecular Formula:</b>	C <sub>31</sub> H <sub>30</sub> D <sub>3</sub> N <sub>5</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	542.64
<b>Target:</b>	PDGFR; VEGFR; FGFR
<b>Pathway:</b>	Protein Tyrosine Kinase/RTK
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Nintedanib-d3 (BIBF 1120-d3) is the deuterium labeled Nintedanib. Nintedanib (BIBF 1120) is a potent triple angiokinase inhibitor for VEGFR1/2/3, FGFR1/2/3 and PDGFR $\alpha/\beta$ with IC <sub>50</sub> s of 34 nM/13 nM/13 nM, 69 nM/37 nM/108 nM and 59 nM/65 nM, respectively.
<b>In Vitro</b>	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Roth GJ, et al. Design, synthesis, and evaluation of indolinones as triple angiokinase inhibitors and the discovery of a highly specific 6-methoxycarbonyl-substituted indolinone (BIBF 1120). *J Med Chem*, 2009, 52(14), 4466-4480.
- [3]. Hilberg F, et al. BIBF 1120: triple angiokinase inhibitor with sustained receptor blockade and good antitumor efficacy. *Cancer Res*, 2008, 68(12), 4774-4782.

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

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