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Zuschläge

- Mindermengenzuschlag
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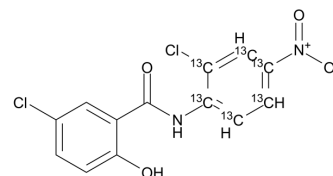
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Niclosamide-¹³C₆

Cat. No.:	HY-B0497S1
CAS No.:	1325808-64-7
Molecular Formula:	C ₇ ¹³ C ₆ H ₈ Cl ₂ N ₂ O ₄
Molecular Weight:	333.08
Target:	STAT; Parasite; Antibiotic; Isotope-Labeled Compounds
Pathway:	JAK/STAT Signaling; Stem Cell/Wnt; Anti-infection; Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Niclosamide- ¹³ C ₆ is the ¹³ C ₆ labeled Niclosamide. Niclosamide (BAY2353) is an orally bioavailable chlorinated salicylanilide, with anthelmintic and potential antineoplastic activity. Niclosamide (BAY2353) inhibits STAT3 with IC50 of 0.25 μM in HeLa cells and inhibits DNA replication in a cell-free assay.
In Vitro	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^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Chen, M., et al., The anti-helminthic niclosamide inhibits Wnt/Frizzled1 signaling. *Biochemistry*, 2009. 48(43): p. 10267-74.
- [2]. Jin, Y., et al. Antineoplastic mechanisms of niclosamide in acute myelogenous leukemia stem cells: inactivation of the NF-kappaB pathway and generation of reactive oxygen species. *Cancer Res*, 2010. 70(6): p. 2516-27.
- [3]. Ren, X., et al., Identification of niclosamide as a new small-molecule inhibitor of the STAT3 signaling pathway. *ACS Medicinal Chemistry Letters*, 2010. 1(9): p. 454-459.
- [4]. Wu C.J, et al. Inhibition of severe acute respiratory syndrome coronavirus replication by niclosamide. *Antimicrob Agents Chemother*. 2004 Jul;48(7):2693-6.
- [5]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.

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

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