# Indatraline hydrochloride

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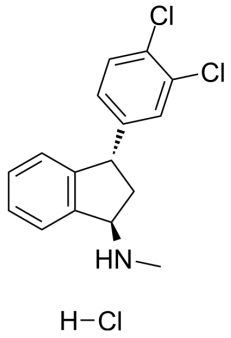
| **Cat. No.:** | HY-110019 |
| **CAS No.:** | 96850-13-4 |
| **Molecular Formula:** | $C_{16}H_{16}Cl_3N$ |
| **Molecular Weight:** | 328.66 |
| **Target:** | Serotonin Transporter; Dopamine Transporter |
| **Pathway:** | Neuronal Signaling |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |




## BIOLOGICAL ACTIVITY

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| **Description** | Indatraline hydrochloride (Lu 19-005) is a non-selective monoamine transporter inhibitor that blocks the reuptake of neurotransmitters (dopamine, serotonin, and norepinephrine). Indatraline hydrochloride can be used for the research of antidepressive. Indatraline hydrochloride induces autophagy while simultaneously inhibiting cell proliferation. Indatraline hydrochloride may also serve to direct the development of new agents for autophagy-related diseases such as atherosclerosis or restenosis[1]. |
| **$IC_{50}$ & Target** | monoamine transporter[1] |

**In Vitro**

Indatraline (0~5 μM; 24 hours; EGFP-LC3 stable cells) hydrochloride makes the concentration-dependent conversion of LC3 [1].

Indatraline (1~10 μM; 24 hours; HeLa cells) hydrochloride makes EGFP-LC3 fluorescent vacuoles increased concentration-dependently in the cytoplasm[1].

Indatraline (1~20 μM; smooth muscle cells) hydrochloride inhibits smooth muscle cells proliferation with an $IC_{50}$ of 15 μM.

Indatraline hydrochloride induces autophagy in cells. Indatraline hydrochloride affects AMPK/mTOR/S6K signaling axis[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

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| Cell Line: | HeLa cells |
| Concentration: | 0~5 μM |
| Incubation Time: | 24 hours |
| Result: | Made the concentration-dependent conversion of LC3. |

Immunofluorescence[1]

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| Cell Line: | EGFP-LC3 stable cells |
| Concentration: | 1~10 μM |
| Incubation Time: | 24 hours |
| Result: | EGFP-LC3 fluorescent vacuoles increased concentration-dependently in the cytoplasm. |

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| **In Vivo** | Indatraline (2 μM) hydrochloride inhibits neointimal accumulation of smooth muscle cells[1].<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

## REFERENCES

[1]. Cho YS, et al. Antidepressant indatraline induces autophagy and inhibits restenosis via suppression of mTOR/S6 kinase signaling pathway. Sci Rep. 2016; 6:34655.



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