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# Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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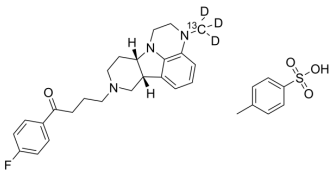
# Lumateperone-$CH_{C,d_3}$ tosylate

| | |
|---|---|
| **Cat. No.:** | HY-19733S |
| **Molecular Formula:** | $C_{30}{}^{13}CH_{33}D_3FN_3O_4S$ |
| **Molecular Weight:** | 569.71 |
| **Target:** | Isotope-Labeled Compounds; Dopamine Receptor; 5-HT Receptor |
| **Pathway:** | Others; GPCR/G Protein; Neuronal Signaling |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |



## BIOLOGICAL ACTIVITY

| | |
|---|---|
| **Description** | Lumateperone-$^{13}C,d_3$ (ITI-007-$^{13}C,d_3$) tosylate is $^{13}C$ and deuterium labeled Lumateperone (tosylate). Lumateperone (ITI-007) tosylate is a 5-HT2A receptor antagonist (Ki = 0.54 nM), a partial agonist of presynaptic D2 receptors and an antagonist of postsynaptic D2 receptors (Ki = 32 nM), and a dopamine D1 receptor modulator. Lumateperone tosylate has anticancer activity and can also be used in studies of psychiatric disorders such as schizophrenia[1][2][3][4]. |

## REFERENCES


[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

[2]. Lumateperone

[3]. Jinyuan Zhang, et al. Identification of Trovafloxacin, Ozanimod, and Ozenoxacin as Potent c-Myc G-quadruplex Stabilizers to Suppress c-Myc Transcription and Myeloma Growth. Mol Inform. 2022 Mar 30:e2200011.

[4]. J Titulaer, et al. Lumateperone-mediated effects on prefrontal glutamatergic receptor-mediated neurotransmission: A dopamine D1 receptor dependent mechanism. Eur Neuropsychopharmacol. 2022 Jul 22;62:22-35.

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