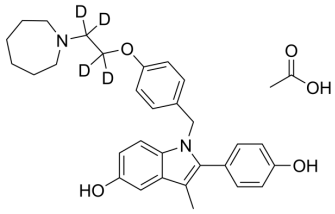
Bazedoxifene-d4 acetate

Cat. No.:	HY-A0031S2
CAS No.:	1795027-71-2
Molecular Formula:	$C_{32}H_{34}D_4N_2O_5$
Molecular Weight:	534.68
Target:	Estrogen Receptor/ERR
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Bazedoxifene-d_4 (acetate) is the deuterium labeled Bazedoxifene[1]. Bazedoxifene (TSE-424) is an oral, BBB-penetrant nonsteroidal selective estrogen receptor modulator (SERM), with IC50s of 23 nM and 99 nM for ERα and ERβ, respectively. Bazedoxifene can be used for the research of osteoporosis. Bazedoxifene also acts as an inhibitor of IL-6/GP130 protein-protein interactions and can be used for the research of pancreatic cancer[2][3].
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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

[2]. Barry S Komm, et al. Bazedoxifene acetate: a selective estrogen receptor modulator with improved selectivity. Endocrinology. 2005 Sep;146(9):3999-4008.

[3]. Xiaojuan Wu, et al. Bazedoxifene as a Novel GP130 Inhibitor for Pancreatic Cancer Therapy. Mol Cancer Ther. 2016 Nov 15(11): 2609–2619.

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

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