

Product Data Sheet

Product Name: Bazedoxifene-d₄

Cat. No.: GC46907

Chemical Properties

Cas. No. 1133695-49-4

SMILES CC1=C(C2=CC=C(O)C=C2)N(CC3=CC=C(OC([2H])([2H])C([2H])([2H])N4CCCCC4)C=C3)C5=C1C=C(O)C=C5

Formula C₃₀H₃₀D₄N₂O₃

M.Wt 474.6

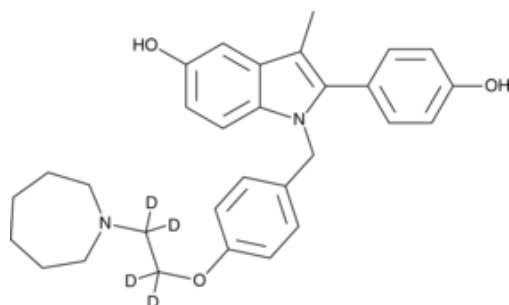
Solubility

Storage Store at 2°C to 8°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

Bazedoxifene-d₄ is intended for use as an internal standard for the quantification of bazedoxifene by GC- or LC-MS. Bazedoxifene is a third generation selective estrogen receptor modulator (SERM). It is an indole-based ER ligand that binds to both ER α (IC₅₀ = 26 nM) and ER β (IC₅₀ = 99 nM).¹ Bazedoxifene antagonizes 17 β -estradiol-dependent MCF-7 and T47D breast cancer cell proliferation *in vitro* as well as hormone-independent growth of MCF-7:5C cells that are resistant to long-term estrogen deprivation (80% reduction with 10 nM).² It has been shown to arrest cell cycling by downregulating cyclin D1 and ER α .

1. Komm, B.S., Kharode, Y.P., Bodine, P.V.N., et al. Bazedoxifene acetate: A selective estrogen

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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receptor modulator with improved selectivity *Endocrinology* 146(9)3999-4008(2005) 2. Lewis-Wambi, J.S., Kim, H., Curpan, R., et al. The selective estrogen receptor modulator bazedoxifene inhibits hormone-independent breast cancer cell growth and down-regulates estrogen receptor α and cyclin D1 *Mol. Pharmacol.* 80(4)610-620(2011)

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