

Product Data Sheet

Product Name: Metaxalone-d6

Cat. No.: GC48907

Chemical Properties

Cas. No. 1189944-95-3

SMILES [2H]C([2H])([2H])C1=CC(C([2H])([2H])[2H])=CC(OCC(O2)CNC2=O)=C1

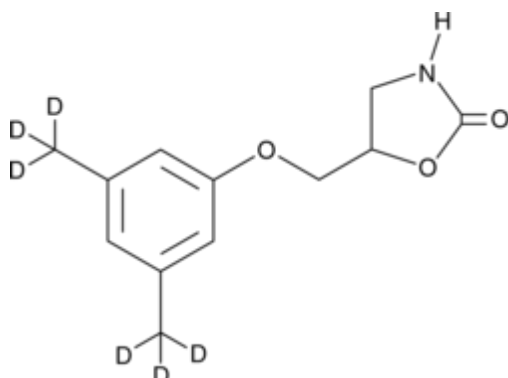
Formula C₁₂H₉D₆NO₃ M.Wt 227.3

Solubility Acetonitrile: Soluble Storage -20°C

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

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

Structure



Background

Metaxalone-d₆ is intended for use as an internal standard for the quantification of metaxalone by GC- or LC-MS. Metaxalone is a skeletal muscle relaxant.^{1,2} It inhibits the proliferation of, and induces apoptosis in, RAW 264.7 cells *in vitro* when used at concentrations ranging from 1 to 100 µM.² Metaxalone also reduces LPS-induced increases in COX-1, COX-2, and NF-κB levels and inhibits LPS-induced production of TNF-α, IL-6, and prostaglandin E₂ in RAW 264.7 cells. Formulations containing metaxalone have been used in the treatment of lower back pain.

1. Chou, R., Peterson, K., and Helfand, M. Comparative efficacy and safety of skeletal muscle relaxants for spasticity and musculoskeletal conditions: A systematic review. *J. Pain Symptom*

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

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Manage.28(2)140-175(2004) 2.Yamaguchi, M., and Levy, R.M.Metaxalone suppresses production of inflammatory cytokines associated with painful conditions in mouse macrophages RAW264.7 cells in vitro: Synergistic effect with β -caryophylleneCurr. Mol. Med.20(8)643-652(2020)

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