

Product Data Sheet

Product Name: Indapamide-13C-d3

Cat. No.: GC49195

Chemical Properties

Cas. No. 2934053-07-1

SMILES C1C=C(S(N)(=O)=O)C=C(C(NN2C([13C]([2H])([2H])[2H])CC3=C2C=CC=C3)=O)C=C1

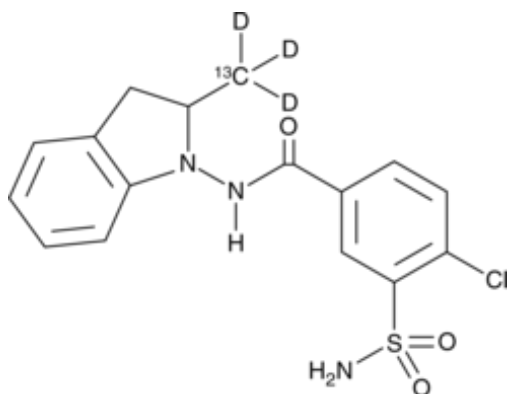
Formula C15[13C]H13D3ClN3O3S M.Wt 369.8

Solubility Acetonitrile: soluble, DMF: soluble, DMSO: soluble, Ethanol: soluble, Methanol: 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

Indapamide-¹³C-d₃ is intended for use as an internal standard for the quantification of indapamide by GC- or LC-MS. Indapamide is a carbonic anhydrase (CA) inhibitor (K_i s = 0.23, 36, 10, and 13 nM for CAVII, CAIX, CAXII, and CAXIII, respectively).¹ It is selective for these CAs over CAI-CAVI and CAXIV (K_i s = 213->10,000 nM). Indapamide is a thiazide-like diuretic that reduces blood pressure in spontaneously hypertensive rats (SHRs).² It also increases urinary and renovascular levels of 11,12-EET and 14,15-EET, decreases urinary levels of 11,12-DiHET and 14,15-DiHET, and reduces renal

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

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cortical malondialdehyde levels in SHR. Formulations containing indapamide have been used in the treatment of hypertension, as well as salt and fluid retention associated with congestive heart failure.

1. Temperini, C., Cecchi, A., Scozzafava, A., et al. Carbonic anhydrase inhibitors. Comparison of chlorthalidone and indapamide X-ray crystal structures in adducts with isozyme II: When three water molecules and the keto-enol tautomerism make the difference. *J. Med. Chem.* 52(2):322-328 (2019)
2. Ma, F., Lin, F., Chen, C., et al. Indapamide lowers blood pressure by increasing production of epoxyeicosatrienoic acids in the kidney. *Mol. Pharmacol.* 84(2):286-295 (2013)

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