
Product Data Sheet

Product Name: Doxazosin D8

Cat. No.: GC60790

Chemical Properties

Cas. No. 1126848-44-9

SMILES O=C(N1C([2H])([2H])C([2H])([2H])N(C2=NC(N)=C3C=C(OC)C(OC)=CC3=N2)C([2H])([2H])C1([2H])[2H])C4OC5=CC=CC=C5OC4

Formula C₂₃H₁₇D₈N₅O₅ M.Wt 459.52

Solubility Storage Store at -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**

Doxazosin-dg is intended for use as an internal standard for the quantification of doxazosin by GC- or LC-MS. Doxazosin is a non-selective antagonist of α_1 -adrenergic receptors (α_1 -ARs; K_i s = 3.16, 1, and 3.98 nM for α_{1A} -, α_{1B} -, and α_{1D} -ARs, respectively).¹ It inhibits norepinephrine-induced contractions in isolated rat aortic rings and human prostate strips with pA_2 values of 8.8 and 8.2, respectively. Doxazosin inhibits phenylephrine-induced increases in blood pressure and prostatic pressure in anesthetized dogs (pA_2 = 7.5 for both). Formulations containing doxazosin have been used in the treatment of benign prostatic hyperplasia and hypertension.

1. Kenny, B.A., Miller, A.M., Williamson, I.J.R., et al. Evaluation of the pharmacological selectivity profile of α_1 adrenoceptor antagonists at prostatic α_1 adrenoceptors: Binding, functional and in vivo studies *Br. J. Pharmacol.* 118(4)871-878(1996)

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

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