Product Data Sheet

Product Name: Midodrine D6 hydrochloride
Cat. No.: GC30475

Chemical Properties

Cas. No.	1188265-43-1		
SMILES	OC(CNC(CN)=O)C1=CC(OC([2H])([2H])[2H])=CC=C1OC([2H])([2H])[2H].[H]Cl		
Formula	$C_{12}H_{13}D_6ClN_2O_4$	M.Wt	296.78
Solubility	H_2O : 100 mg/mL (336.95 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Midodrine D6 hydrochloride		

Background

Midodrine-d_6 is intended for use as an internal standard for the quantification of midodrine by GC- or LC-MS. Midodrine is a prodrug form of the α_1-adrenergic receptor (α_1-AR) agonist desglymidodrine.[1] It is converted to desglymidodrine by enzymatic hydrolysis. Midodrine (5 mg/kg) increases mean arterial pressure (MAP) and decreases heart rate in normotensive rats.[2] Formulations containing midodrine have been used in the treatment of orthostatic hypotension.

1.McClellan, K.J., Wiseman, L.R., and Wilde, M.I.Midodrine. A review of its therapeutic use in the management of orthostatic hypotensionDrugs Aging12(1)76-86(1998) 2.Dabasaki, T., Shimojo, M., Ishikawa, H., et al.Anti-hypotensive effects of M6434, an orally active α1-adrenoceptor agonist, in ratsJpn. J. Pharmacol.59(2)145-150(1992)

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