Product Data Sheet

Product Name: Triamterene D5
Cat. No.: GC37824

Chemical Properties

Cas. No.	1189922-23-3		
SMILES	NC1=NC2=NC(N)=NC(N)=C2N=C1C3=C([2H])C([2H])=C([2H])C([2H])=C3[2H]		
Formula	$C_{12}H_6D_5N_7$	M.Wt	258.29
Solubility	DMSO: slightly soluble,Methanol: slightly soluble	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	Triamterene D5		

Background

Triamterene-d_5 is intended for use as an internal standard for the quantification of triamterene by GC- or LC-MS. Triamterene is an inhibitor of the epithelial sodium channel (ENaC; IC_{50} = 4.5 ?M for the rat channel).[1] *In vivo*, triamterene (0.5-32 mg/animal) enhances sodium secretion and decreases potassium secretion in adrenalectomized rats.[2] Formulations containing triamterene have been used in the treatment of edema.

1.Kellenberger, S., Gautschi, I., and Schlid, L.Mutations in the epithelial Na+ channel ENaC outer pore disrupt amiloride block by increasing its dissociation rateMol. Pharmacol.64(4)848-856(2003) 2.Baba, W.I., Tudhope, G.R., and Wilson, G.M.Triamterene, a new diuretic drug. I. Studies in normal men and in adrenalectomized ratsBr. Med. J.2(5307)756-760(1962)

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