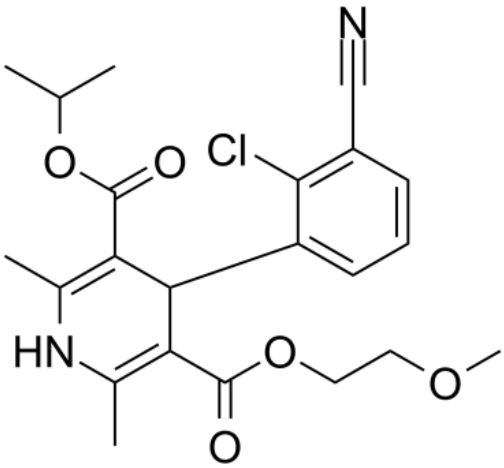
Product Data Sheet

Product Name: (Rac)-MEM 1003
Cat. No.: GC61873

Chemical Properties

Cas. No.	165187-25-7		
SMILES	O=C(OCCOC)C1=C(NC(C)=C(C1C2=CC=CC(C#N)=C2Cl)C(OC(C)C)=O)C		
Formula	$C_{22}H_{25}ClN_2O_5$	M.Wt	432.9
Solubility	DMSO : 125 mg/mL (288.75 mM; ultrasonic and warming and heat to 80°C)	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

(Rac)-MEM 1003 is the racemate of MEM 1003. MEM 1003, a dihydropyridine compound, is a potent L-type Ca2+ channel antagonist and has the potential for Alzheimer's disease research[1].

References:

Caution: Product has not been fully validated for medical applications. For research use only.
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[1]. Gregory M Rose, et al. Efficacy of MEM 1003, a novel calcium channel blocker, in delay and trace eyeblink conditioning in older rabbits. Neurobiol Aging. 2007 May;28(5):766-73.

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