Product Data Sheet

Product Name: 8MDP
Cat. No.: GC50068

Chemical Properties

Cas. No.	29491-75-6		
SMILES	OCCN(CCO)C2=NC1=C(N3CCCCCCC3)N=C(N(CCO)CCO)N=C1C(N4CCCCCCC4)=N2		
Formula	$C_{28}H_{48}N_8O_4$	M.Wt	560.73
Solubility	Soluble in DMSO	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	8MDP		

Background

Potent equilibrative nucleoside transporter 1 (ENT1) inhibitor (IC50 = 0.43 nM). Inhibits hENT1 and hENT2 uptake of [H3]uridine in K562 cells and K15NTD cells respectively.

Lin et al (2011) Design, synthesis, and evaluation of 2-diethanolamino-4,8-diheptamethyleneimino-2-(N-aminoethyl-N-ethanolamino)-6-(N,N-diethanolamino)pyrimido[5,4-d]pyrimidine-fluorescein conjugate (8MDP-fluor), as a novel equilibrativ Bioconjug.Chem. 22 1221 PMID:21539390 |Lin et al (2007) Synthesis, flow cytometric evaluation, and identification of highly potent dipyrid. analogues as equilibrative nucleoside transporter 1 inhibitors. J.Med.Chem. 50 3906 PMID:17636949

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