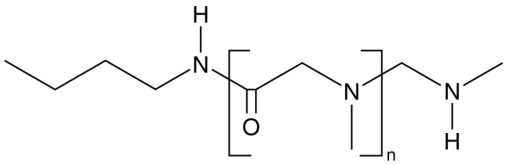
Product Data Sheet

Product Name: Polysarcosine50
Cat. No.: GC91876

Chemical Properties

Cas. No.			
Chemical Name	N-butyl-2-(methyl((methylamino)methyl)amino)acetamide		
SMILES	CCCCNC(CN(C)CNC)=O		
Formula	$(C_3H_5NO)nC_6H_{16}N_2$	M.Wt	
Solubility	Chloroform: Soluble	Storage	-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

Polysarcosine50 is an amine-functionalized hydrophilic polymer.[1] It has been used in the synthesis of catechol-functionalized copolypeptoids that can be used to solubilize manganese oxide nanoparticles in aqueous solvents. Surface modification of liposomes with polysarcosine polymers between 10 and 400 units long have been used to increase circulation half-life.[2]

References:
[1]. Gebru, H., Wang, X., Li, Z., et al.Br?nsted base mediated one-pot synthesis of catechol-ended amphiphilic polysarcosine-b-poly(N-butyl glycine) diblock copolypeptoids.Pure Appl. Chem.91(3)363-374(2019).
[2]. Weber, B., Birke, A., Fischer, K., et al.Solution properties of polysarcosine: From absolute and relative molar mass determinations to complement activationMacromolecules51(7)2653–2661(2018).

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