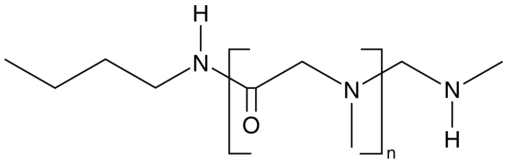
Product Data Sheet

Product Name: Polysarcosine20
Cat. No.: GC91874

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,Methanol: 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

Polysarcosine20 is an amine-functionalized hydrophilic polymer.[1] Addition of polysarcosine20 to surface-grafted polymer brushes reduces protein absorption and mammalian and bacterial cell attachment, indicating potential use as an antifouling agent. Surface modification of liposomes with polysarcosine polymers between 10 and 100 units long have been used to increase circulation half-life.[2,3]

References:

[1]. Lau, K.H.A., Ren, C., Sileika, T.S., et al.Surface-grafted polysarcosine as a peptoid antifouling polymer brushLangmuir28(46)16099-16107(2012).
[2]. Weber, B., Seidl, C., Schwiertz, D., et al.Polysarcosine-based lipids: From lipopolypeptoid

micelles to stealth-like lipids in Langmuir Blodgett monolayersPolymers (Basel)8(12)427(2016).
[3]. Bleher, S., Buck, J., Muhl, C., et al.Poly(sarcosine) surface modification imparts stealth-like properties to liposomesSmall15(50)e1904716(2019).