

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)C)C(=O)N

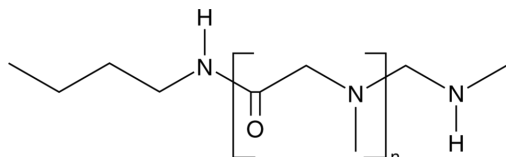
Formula $(C_3H_5NO)_n C_6H_{16}N_2$ M.Wt

Solubility Chloroform: Soluble, Methanol: Soluble Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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 brush. *Langmuir* 28(46):16099-16107 (2012).
- [2]. Weber, B., Seidl, C., Schwiertz, D., et al. Polysarcosine-based lipids: From lipopolypeptoid

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

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micelles to stealth-like lipids in Langmuir Blodgett monolayers *Polymers (Basel)* 8(12)427(2016).
[3]. Bleher, S., Buck, J., Muhl, C., et al. Poly(sarcosine) surface modification imparts stealth-like properties to liposomes *Small* 15(50)e1904716(2019).

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