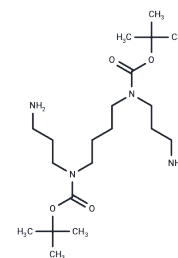


## N4,N9-di-Boc-spermine

### Chemical Properties

CAS No. : 177213-61-5  
 Formula: C<sub>20</sub>H<sub>42</sub>N<sub>4</sub>O<sub>4</sub>  
 Molecular Weight: 402.572  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



### Biological Description

Description	N4,N9-di-Boc-spermine is a spermine linker characterized by two Boc-protected amine groups and two additional amine groups. The Boc groups can be removed under mild acidic conditions to yield free amines. These amino groups can react with carboxylic acids, activated NHS esters, and carbonyl compounds (ketones, aldehydes). Spermidine, a polyamine, plays a role in regulating various cellular activities including cell growth and differentiation, DNA stability, and apoptosis.
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.484 mL	12.4202 mL	24.8404 mL
5 mM	0.4968 mL	2.484 mL	4.9681 mL
10 mM	0.2484 mL	1.242 mL	2.484 mL
50 mM	0.0497 mL	0.2484 mL	0.4968 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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