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## Product Data Sheet

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Product Name: N-BOC-DL-serine methyl ester

Cat. No.: GC65227

### Chemical Properties

Cas. No. 69942-12-7

Formula C<sub>9</sub>H<sub>17</sub>NO<sub>5</sub> M.Wt 219.23

Solubility Storage Store at -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

N-BOC-DL-serine methyl ester is a Serine derivative. N-BOC-DL-serine methyl ester is used for the synthesis of  $\alpha,\beta$ -dehydro- $\alpha$ -amino acid. N-BOC-DL-serine methyl ester is also used for the synthesis of anti-cancer agent, such as quinazolinone derivative that inhibits PI3K activity, and tricyclic pyrolopyranopyridines that inhibits protein kinase activity[1][2][3].

[1]. Yang Yongqing, et al. Method for synthesizing  $\alpha,\beta$ -dehydro- $\alpha$ -amino acid. Patent CN105037210. [2]. Wu Chengde, et al. Preparation of quinazolinone derivatives useful as PI3K $\alpha$  inhibitors for the treatment of cancer. Patent WO2019091476. [3]. Pastor Fernandez, et al. Preparation of tricyclic pyrolopyranopyridines as protein kinase inhibitors. Patent WO2017033019.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA