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## Product Data Sheet

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Product Name: Fmoc-L-Lys (Boc)-OH-15N2

Cat. No.: GC65145

### Chemical Properties

Cas. No. 1217447-72-7

Formula C<sub>26</sub>H<sub>32</sub>N<sub>2</sub>O<sub>6</sub>

M.Wt

470.53

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

Fmoc-L-Lys (Boc)-OH-15N2 is a 15N-labeled Xanthine. Xanthine, a plant alkaloid found in tea, coffee, and cocoa, is a mild stimulant of the central nervous system. Xanthine also acts as an intermediate product on the pathway of purine degradation[1][2][3].

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[75].

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-238.

[2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-238.

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

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