
Product Data Sheet

Product Name: Benzamide-15N

Cat. No.: GC63577

Chemical Properties

Cas. No. 31656-62-9

Formula C₇H₇ ¹⁵N_O

M.Wt 122.13

Solubility DMSO : 100 mg/mL (818.80 mM; Need ultrasonic) 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

Benzamide-15N (NSC-3114-15N) is a 15N-labeled Benzamide. Benzamide inhibits poly(ADP-ribose) polymerase (PARP)[1][2].

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[1].

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216. [2]. Cosi C, et al. Benzamide, an inhibitor of poly(ADP-ribose) polymerase, attenuates methamphetamine-induced dopamine neurotoxicity in the C57B1/6N mouse. *Brain Res.* 1996;735(2):343-348.

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

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