

Product Data Sheet

Product Name: Adamantan-2-amine

Cat. No.: GC81894

Chemical Properties

Cas. No. 13074-39-0

Formula $C_{10}H_{17}N$

M.Wt 151.25

Solubility Storage Store at RT, protect from light

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

Adamantan-2-amine (2-Aminoadamantane) serves as the hydrophobic tag structural unit of Tubulin degrader 2 and is used for the synthesis of anticancer drugs that target tubulin via a dual mechanism. Adamantan-2-amine can be applied in research on breast cancer, lung cancer, colorectal cancer, and Parkinson's syndrome [1] [2] [3].

In Vitro, Adamantan-2-amine (2-Aminoadamantane) (0.05 mol; 20 min) hydrochloride successfully undergoes fusion with dicyandiamide at 190°C to produce 1-(2-adamantyl) biguanide hydrochloride with 85% yield[3].

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

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References:

- [1]. Wang S, et al. Design, synthesis and biological evaluation of novel tubulin-targeting agents with a dual-mechanism for polymerization inhibition and protein degradation. European journal of medicinal chemistry. 2024 Jun 05;272:116458.
- [2]. Morozov IS, et al. Anticataleptic activity of heterocyclic 2-aminoadamantane derivatives. Pharm Chem J. 2000 Apr;34(4):189-192. doi:10.1007/BF02524595.
- [3]. Eisa HM, et al. Synthesis of certain 2-aminoadamantane derivatives as potential antimicrobial agents. Die Pharmazie. 1991 Mar;46(3):182-4.

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