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**Product Data Sheet**

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Product Name: 8-Azanebularine

Cat. No.: GC68581

**Chemical Properties**

Cas. No. 38874-46-3

Formula  $C_9H_{11}N_5O_4$ 

M.Wt 253.21

Solubility DMSO : 50 mg/mL (197.46 mM; Need ultrasonic); H<sub>2</sub>O : 5 mg/mL (19.75 mM; Need ultrasonic)Store  
Storage 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**

8-Azanebularine, a compound with drogen in place of the C6 amino group, inhibits the ADAR2 reaction at high concentrations (**IC<sub>50</sub>**=15 mM). 8-Azanebularine is incorporated into an RNA structure recognized by human ADAR2 results in high-affinity binding (**K<sub>D</sub>**=2 nM). 8-Azanebularine can be used for the research of ADAR-catalyzed RNA-editing reaction<sup>[1]</sup>.

[1]. Haudenschild BL, et al. A transition state analogue for an RNA-editing reaction. J Am Chem Soc. 2004;126(36):11213-11219.

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

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