
Product Data Sheet

Product Name: Benzoquinoquinoxaline

Cat. No.: GC68348

Chemical Properties

Cas. No. 207671-99-6

Formula $C_{23}H_{21}N_5O$

M.Wt 383.45

Solubility DMSO : 130 mg/mL (339.03 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

Benzoquinoquinoxaline (BQQ) is a heterocyclic compound with an aminoalkyl side chain. Benzoquinoquinoxaline preferentially binds to DNA triplex structures, intercalates between the bases, thus, stabilising the triplex conformation. Conjugation of Benzoquinoquinoxaline to 1,10-phenanthroline specifically binds and cleaves double strand DNA at the site of formation of a triplex structure^[1].

[1]. Umek T, et al. Oligonucleotide Binding to Non-B-DNA in MYC. *Molecules*. 2019 Mar 12;24(5):1000.

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

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