

Product Data Sheet

Product Name: Indigoidine

Cat. No.: GC81573

Chemical Properties

Cas. No. 2435-59-8

Formula $C_{10}H_8N_4O_4$

M.Wt 248.2

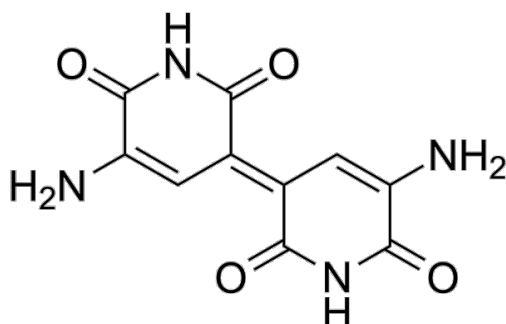
Solubility

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

Indigoidine is a natural biological pigment that appears in a bright blue color and is a natural blue dye with industrial applications. Indigoidine can act as a free radical scavenger, helping plant pathogens tolerate oxidative stress; and it also has antimicrobial activity [1].

In Vitro, Indigoidine is a natural blue diazadibenzoquinone pigment produced by the condensation of two molecules of L-Glutamine catalyzed by bacterial indigoidine synthetase (NRPS); it can be

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efficiently produced by E. coli^[1].

References:

[1]. Xu F, et al. Efficient production of indigoidine in Escherichia coli. Journal of industrial microbiology & biotechnology. 2015 Aug;42(8):1149-55.

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