

Product Data Sheet

Product Name: Methyl 5,6-dibromo-1H-indole-3-carboxylate

Cat. No.: GC81878

Chemical Properties

Cas. No. 1309792-72-0

Formula $C_{10}H_7Br_2NO_2$ M.Wt 332.98

Solubility Storage Store at 4°C, 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

Methyl 5,6-dibromo-1H-indole-3-carboxylate is a brominated indole alkaloid. Methyl 5,6-dibromo-1H-indole-3-carboxylate exhibits cytotoxicity against cancer cells. Methyl 5,6-dibromo-1H-indole-3-carboxylate can be used in research related to cervical cancer and liver cancer [1].

In Vitro, Methyl 5,6-dibromo-1H-indole-3-carboxylate (compound 7) exhibits moderate cytotoxicity against HeLa and HepG2 cells with IC₅₀ values of 13.0 and 36.1 μM, whereas it shows weak or no activity against MOLT-3, A549, HuCCA-1, HL-60, and MDA-MB-231 cells with IC₅₀ >100 μM [1].

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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References:

[1]. Prawat H, et al. Iodo–sesquiterpene hydroquinone and brominated indole alkaloids from the Thai sponge *Smenospongia* sp[J]. *Tetrahedron*, 2012, 68(34): 6881-6886.

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