

Product Data Sheet

Product Name: 7-BIA
Cat. No.: GC65394

Chemical Properties

Cas. No. 1313403-49-4

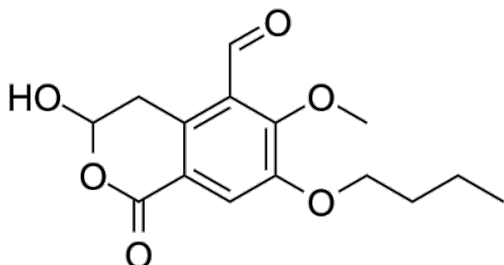
Formula C₁₅H₁₈O₆ M.Wt 294.3

Solubility DMSO : 125 mg/mL (424.74 mM; Need ultrasonic)|Ethanol : 50 mg/mL (169.89 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

7-BIA is a receptor-type protein tyrosine phosphatase D (PTPRD) inhibitor with an IC₅₀ of ~1-3 μM[1].

7-BIA (7-butoxy illudalic acid analog) inhibits recombinant human PTPRD and recombinant human PTPRS with IC₅₀ values of ~1-3 μM and 40 μM, respectively[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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7-BIA (10-20 mg/kg; given i.p.; only once) reduces cocaine self-administration in highly experienced WT mice[1].

[1]. Uhl GR, et al. Cocaine reward is reduced by decreased expression of receptor-type protein tyrosinephosphatase D (PTPRD) and by a novel PTPRD antagonist. Proc Natl Acad Sci U S A. 2018 Nov 6;115(45):11597-11602.

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