

Product Data Sheet

Product Name: BW-A 78U

Cat. No.: GC31915

Chemical Properties

Cas. No. 101155-02-6

SMILES CNC1=C2N=CN(CC3=CC=CC=C3F)C2=NC=N1

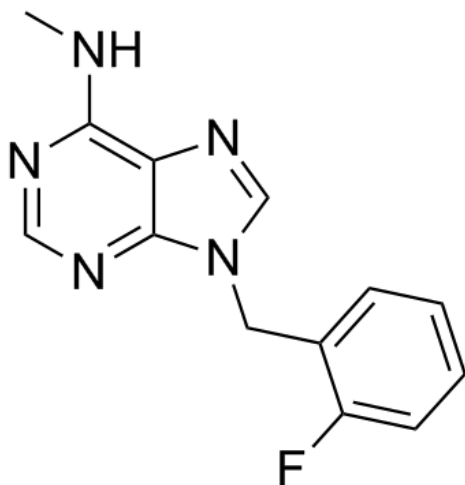
Formula $C_{13}H_{12}FN_5$ M.Wt 257.27

Solubility DMSO : 150 mg/mL (583.05 mM) 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



Protocol

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

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

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Cell experiment: Mononuclear cells are incubated for 30 min with BW-A 78U at the concentration of 10 nM to 10 μ M. The cells are then stimulated with lipopolysaccharide (10 μ g/mL) overnight at 37°C in an atmosphere of 5% CO₂ at 100% humidity. Cell-free supernatants are collected, centrifuged (2000 g), and stored frozen at -20°C before TNF- α determination. TNF- α concentrations in cell culture supernatants are determined by specific ELISA using a commercial kit. Sensitivity of the assay is 1 pg/mL. The absorbance at 450 nm is assessed with an ELISA reader[1].

References:

[1]. Boichot E, et al. Anti-inflammatory activities of a new series of selective phosphodiesterase 4 inhibitors derived from 9-benzyladenine. J Pharmacol Exp Ther. 2000 Feb;292(2):647-53.

Background

BW-A 78U is a PDE4 inhibitor with an IC₅₀ of 3 μ M.

BW-A 78U is a PDE4 inhibitor with an IC₅₀ of 3 μ M. BW-A 78U fails to significantly inhibit arachidonate release. BW-A 78U is ineffective to inhibit the lipopolysaccharide (LPS)-induced TNF- α release[1].

[1]. Boichot E, et al. Anti-inflammatory activities of a new series of selective phosphodiesterase 4 inhibitors derived from 9-benzyladenine. J Pharmacol Exp Ther. 2000 Feb;292(2):647-53.

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