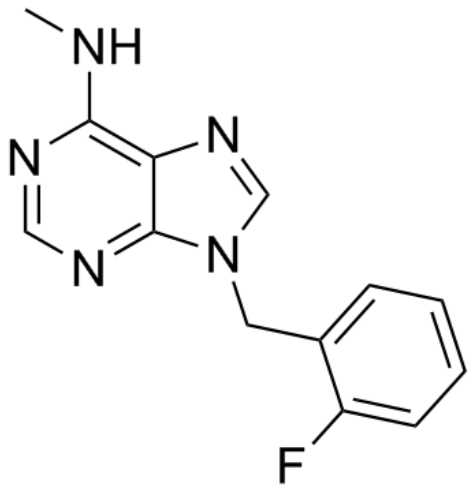
Product Data Sheet

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

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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 μM. The cells are then stimulated with lipopolysaccharide (10 μg/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 derivedfrom 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 μM.

BW-A 78U is a PDE4 inhibitor with an IC50 of 3 μM. 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 derivedfrom 9-benzyladenine. J Pharmacol Exp Ther. 2000 Feb;292(2):647-53.