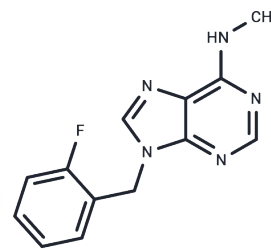


BW-A 78U

## Chemical Properties

CAS No. : 101155-02-6  
 Formula: C<sub>13</sub>H<sub>12</sub>FN<sub>5</sub>  
 Molecular Weight: 257.27  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
*Actual storage temperature shall be subject to the COA.*



## Biological Description

Description	BW-A 78U, a PDE4 inhibitor (IC <sub>50</sub> : 3 μM), does not inhibit lipopolysaccharide (LPS)-induced TNF-α release.
Targets(IC <sub>50</sub> )	PDE
Cell Research	Mononuclear cells were incubated for 30 min with BW-A 78U (0.01-10 μM). The cells were then stimulated with lipopolysaccharide (10 μg/mL) overnight at 37°C in an atmosphere of 5% CO <sub>2</sub> at 100% humidity. Cell-free supernatants were collected, centrifuged (2000 g), and stored frozen at -20°C before TNF-α determination. TNF-α concentrations in cell culture supernatants were determined by specific ELISA using a commercial kit. The sensitivity of the assay was 1 pg/mL. The absorbance at 450 nm was assessed with an ELISA reader.

## Solubility Information

Solubility	DMSO: 45 mg/mL (174.91 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.77 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.887 mL	19.4348 mL	38.8697 mL
5 mM	0.7774 mL	3.887 mL	7.7739 mL
10 mM	0.3887 mL	1.9435 mL	3.887 mL
50 mM	0.0777 mL	0.3887 mL	0.7774 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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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