
Product Data Sheet

Product Name: WD2000-012547

Cat. No.: GC33358

Chemical Properties

Cas. No. 283172-68-9

SMILES O=C(NCC1)C2=CC=CC3=C2C1=C(C4=CC=CC=C4)N3Formula $C_{17}H_{14}N_2O$ M.Wt 262.31

Solubility Soluble in DMSO 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**

WD2000-012547 is a selective poly(ADP-ribose)-polymerase (PARP-1) inhibitor with a pKi of 8.221.

Poly(ADP-ribose) polymerase-1 (PARP-1) functions as a DNA damage sensor and signaling molecule. It plays a vital role in the repair of DNA strand breaks induced by radiation and chemotherapeutic drugs; inhibitors of this enzyme have the potential to improve cancer chemotherapy or radiotherapy. WD2000-012547 (Compound 66) is a representative PARP-1 inhibitor with a pKi of 8.221[1].

[1]. Fatima S, et al. Multiple receptor conformation docking, dock pose clustering and 3D QSAR studies on human poly(ADP-ribose) polymerase-1 (PARP-1) inhibitors. J Recept Signal Transduct Res. 2014 Oct;34(5):417-30.

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

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