

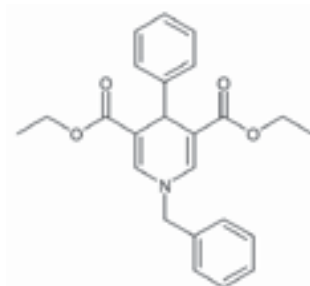
# BPDP (BML-278)

Catalog Number P003-5MG

Catalog Number P003-25MG

## FEATURES

- Novel SIRT activator
- Dihydropyridine scaffold
- Arrests cell cycle at G1/S phase



## INTRODUCTION

Sirt activator based on a dihydropyridine structural scaffold. EC150 (effective concentration able to increase enzyme activity by 150%) is 1  $\mu$ M for Sirt1, 25  $\mu$ M for Sirt2, and 50  $\mu$ M for Sirt3. The compound is active in whole cells and arrests cell cycle at G1/S phase in U937 cells.

<b>FORM:</b>	Off white Powder
<b>MOLECULAR WEIGHT:</b>	391.5
<b>STORAGE:</b>	Room temperature
<b>FORMULA:</b>	$C_{24}H_{25}NO_4$
<b>CAS NUMBER:</b>	None
<b>OTHER NAMES:</b>	BML-278, N-Benzyl-3,5-dicarbethoxy-4-phenyl-1,4-dihydropyridine
<b>USES:</b>	Soluble to 5 mg/mL in DMSO

## REFERENCES:

A. Mai et al. Study of 1,4-dihydropyridine structural scaffold: discovery of novel sirtuin activators and inhibitors . J. Med. Chem. 52:5496 (2009)

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