

NB-598

Catalog No: tcsc1274



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

CAS No:

131060-14-5

Formula:

$C_{27}H_{31}NO_2$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

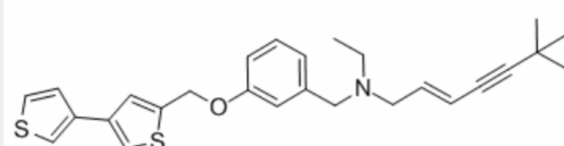
449.67

Product Description

NB-598 is a potent and competitive inhibitor of **squalene epoxidase (SE)**, and suppresses triglyceride biosynthesis through the farnesol pathway.

IC50 & Target: squalene epoxidase

In Vitro: NB598 (10 μ M) causes a $36\pm 7\%$ reduction in total cholesterol level of MIN6 cells. NB598 causes a significant decrease in cholesterol by $49\pm 2\%$, $46\pm 7\%$, and $48\pm 2\%$ from PM, ER, and SG, respectively. NB598 dose-dependently inhibits insulin secretion under both basal (1 mM glucose) and glucose-stimulated (16.7 mM glucose) conditions. NB598 at concentrations up to 10 μ M does not affect peak outward KV currents or the voltage dependence of activation but increases current inactivation^[1]. NB-598 (10 μ M) inhibits the synthesis of sterol and sterol ester from [¹⁴C]acetate without affecting the synthesis of other lipids such as phospholipids (PL), free fatty acids (FFA) and triacylglycerol (TG). In the absence of exogenous liposomal cholesterol, NB-598 reduces ACAT activity by 31%. NB-598 reduces ACAT activity by 22% even in the presence of a 600 PM concentration of liposomal cholesterol^[2]. NB-598 suppresses the secretion of cholesterol and triacylglycerol from HepG2 cells into the medium^[3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!