Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

YS-49

Catalog No: tcsc1002

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
132836-42-1

Formula:
$C_{20}H_{20}BrNO_2$

Pathway:
Others

Target:
Others

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 100 mg/mL (258.88 mM)

Observed Molecular Weight:
386.28

Product Description

YS 49 inhibits Ang II-stimulated proliferation of VSMCs via induction of HO-1.

IC50 value:

Target: HO-1

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YS-49 is a novel positive inotropic isoquinoline compound. YS-49 has potential as a therapeutic strategy for the pathogenesis of Ang II-related vascular diseases such as hypertension and atherosclerosis, via the induction of HO-1 gene activity. YS-49 induced HO-1 protein production in a dose-and time-dependent manner in VSMCs. Treatment with YS-49 significantly and dose-dependently inhibited Ang II-induced VSMC proliferation, ROS production, and phosphorylation of JNK, but not P38 MAP kinase or ERK1/2.YS-49(32.8 microM) exhibited much stronger inhibitory effects on TXA(2) formation. The higher inhibitory potencies of YS-49 (IC(50): 3.3microM) than higenamine (IC(50): 140 microM) on AA induced rat platelet aggregation was presumed to be the result of low inhibitory effect of higenamine than YS-49 on TXA(2) production from AA. The oral administration of YS-49 (50 mg/kg) increased the recovery rates from the acute thrombotic challenge in mice and lowered the weight of thrombus formed inside the AV shunt tube in rats.