

BTB06584

Catalog No: tcsc2498



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

219793-45-0

Formula:

$C_{19}H_{12}ClNO_6S$

Pathway:

Membrane Transporter/Ion Channel

Target:

ATP Synthase

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 47 mg/mL (112.49 mM)

Observed Molecular Weight:

417.82

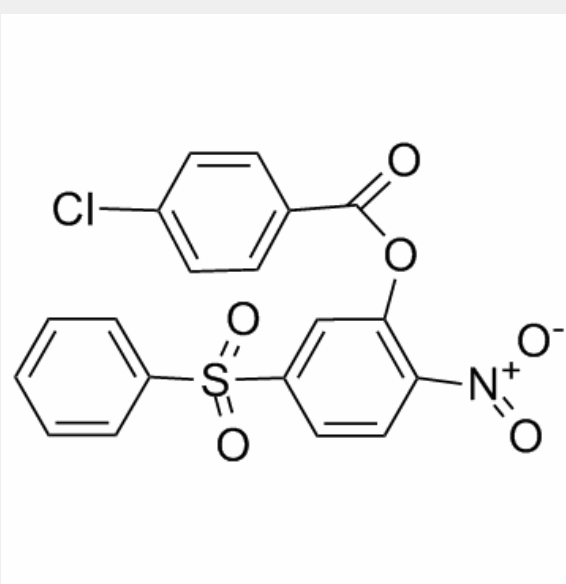
Product Description

BTB06584 is an IF1-dependent selective inhibitor of the mitochondrial F1Fo-ATPase.

Target: ATPase

in vitro: BTB06584 inhibits F1Fo-ATPase activity with no effect on $\Delta\Psi_m$ or O₂ consumption. ATP consumption was decreased following inhibition of respiration, and ischaemic cell death was reduced. BTB06584 efficiency was increased by IF1 overexpression and reduced by silencing the protein. BTB06584 may represent a valuable tool to selectively inhibit mitochondrial F1Fo-ATPase activity without compromising ATP synthesis and to limit ischaemia-induced injury caused by reversal of the mitochondrial F1Fo-ATP synthase.

in vivo: BTB06584 rescues defective haemoglobin synthesis in zebrafish pinotage (pnt) mutants in which expression of the Atpif1a gene is lost.



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