Web: www.taiclone.com
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BAM 15

Catalog No: tcsc0033152

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Specifications

CAS No:
210302-17-3

Formula:
$C_{16}H_{10}F_2N_6O$

Pathway:
Others

Target:
Others

Purity / Grade:
>98%

Solubility:
DMSO : 75 mg/mL (220.40 mM; Need ultrasonic); H2O :

Observed Molecular Weight:
340.29

Product Description

BAM 15 is a novel mitochondrial protonophore uncoupler.

In Vitro: BAM 15 is able to increase O_2 consumption across a broad dosing range without increasing ROS. BAM 15 and FCCP are

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structurally unrelated and it is observed that low doses of BAM 15 from 100 nM to 1 μM increase cellular O_2 consumption rate (OCR) to a similar degree as FCCP, but higher concentrations from 1 μM to 50 μM reveal that BAM 15 is able to maintain uncoupled respiration at a high rate in a range of cell lines. BAM 15 is fully capable of increasing mitochondrial respiration in the presence of oligomycin and does so across a broader concentration range than FCCP in both myoblasts and hepatocytes. BAM 15 induces mitochondrial swelling, demonstrating that BAM 15 is a protonophore. BAM15-treated cells are more viable than FCCP-treated cells when administered across a broad dosing range up to 50 μM[1].

In Vivo: Compare to vehicle-treated mice, animals that receive BAM 15 are protected from kidney injury as indicated by lower plasma creatinine levels at 24 and 48 h post-ischemia, reduced tubular necrosis, less depletion of brush border villi, less obstruction of proximal tubules, and less immune cell infiltration[1].