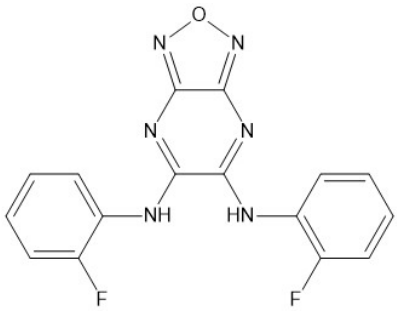
Tribioscience

BAM15, Mitochondrial oxidative phosphorylation inhibitor

Catalog	Unit
TBI5104-5MG	5 mg
TBI5104-25MG	25 mg

Product Details



Formal Name: N5,N6-bis(2-Fluorophenyl)-[1,2,5]oxadiazolo[3,4-b]pyrazine-5,6-diamine
Molecular Formula: $C_{16}H_{10}F_2N_6O$
Formula Weight: 340.30
CAS Number: 210302-17-3
Purity: >98%
Formulation: powder
Solubility: Soluble in DMSO (up to at least 35 mg/ml)
Storage: -20°C
Stability: ≥ 2 years.

Applications

Mitochondrial oxidative phosphorylation inhibitor

Functions

A mitochondrial protonophore uncoupler with fewer off-target effects (EC50 = 270 nM in L6 myoblast mitochondria). Compared to FCCP, an uncoupler of equal potency, BAM15 stimulates a higher maximum rate of mitochondrial respiration and does not depolarize the plasma membrane. Stimulates energy expenditure, protects against obesity and improves glycemic control in rodent models. Reverses diet-induced obesity and insulin resistance in mice. Attenuates transportation-induced apoptosis in iPS-differentiated retinal tissue.

Application Procedures

First dissolved in DMSO (up to at least 35 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.