

MitoBloCK-6, Mitochondrial import inhibitor

Catalog	Unit
TBI1472-5MG	5 mg
TBI1472-25MG	25 mg

Product Details

Formal Name: 2-[[[(4-Anilinophenyl)imino]methyl]-4,6-dichlorophenol

Molecular Formula: C₁₉H₁₄Cl₂N₂O

Formula Weight: 357.24

CAS Number: 303215-67-0

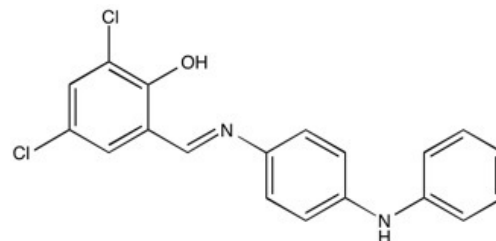
Purity: 98%

Formulation: Powder

Solubility: Soluble in DMSO (50 mg/ml) or in Ethanol (6 mg/ml with warming).

Storage: -20°C

Stability: ≥ 2 years.



Applications

Mitochondrial import inhibitor

Functions

MitoBloCK-6 (303215-67-0) inhibits redox-regulated protein translocation into mitochondria. It attenuates the import of Erv1 substrates by inhibition of Erv1 oxidase activity (the import of Tim23 and AAC was decreased by ~50% at 20 μM). MitoBloCK-6 elucidated an unexpected role for Erv1 in the carrier import pathway, namely transferring substrates from the translocase of the outer membrane complex into the small Tim complexes. It impaired cardiac development in zebrafish embryos and induced apoptosis via the release of cytochrome c in human embryonic stem cells but not differentiated cells.

Application Procedures

First dissolved in DMSO (50 mg/ml) or ethanol (6 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

For research use only.