

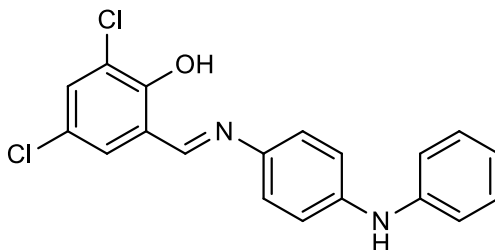
**Catalog # 10-1472**

**MitoBloCK-6**

CAS#303215-67-0

2-[[[4-Anilinophenyl]imino]methyl]-4,6-dichlorophenol

Lot # X105919



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  $\mu$ M). 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<sup>1</sup>.

- 1) Dabir *et al.* (2013), *A small molecule inhibitor of redox-regulated protein translocation into mitochondria*; *Dev. Cell*, **25** 81

**PHYSICAL DATA**

Molecular Weight:	357.24
Molecular Formula:	C <sub>19</sub> H <sub>14</sub> Cl <sub>2</sub> N <sub>2</sub> O
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml), Ethanol (up to 6 mg/ml with warming)
Physical Description:	Orange solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**