Catalog # 10-1598

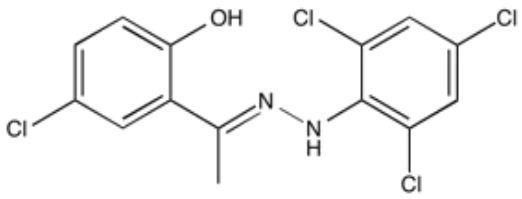
M-1

CAS# 219315-22-7

(E)-4-Chloro-2-(1-(2-(2,4,6-trichlorophenyl)hydrazono)ethyl)phenol

1-(5-Chloro-2-hydroxyphenyl)-ethanone 2-(2,4,6-trichlorophenyl)hydrazone

Lot # S103099



Enhances mitochondrial fusion without interfering with endoplasmic reticulum (ER) and lysosome morphology.[1] M-1 protects cells from mitochondrial fragmentation-associated cell death.[2] Promotion of mitochondrial fusion has protective effects in rotenone-induced neurotoxicity.[3] Cell permeable.

1) Andreaux *et al*. (2013), *Pharmacological approaches to restore mitochondrial function*; Nature Rev. Drug Disc., **12** 465

2) Yang *et al*. (2015), *Mitochondrial fusion provides an 'initial metabolic complementation' controlled by mtDNA*; Cell Mol. Life Sci., **72** 2585

3) Peng *et al*. (2017), *The interaction of mitochondrial Biogenesis and Fission/Fusion Mediated b PGC-1a Regulates Rotenone-Induced Dopaminergic Neurotoxicity*; Mol. Neurobiol., **54** 3783

PHYSICAL DATA

Molecular Weight:	364.05
Molecular Formula:	$C_{14}H_{10}Cl_4N_2O$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 40 mg/ml) or in Ethanol (up to 6 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied, desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

www.focusbiomolecules.com