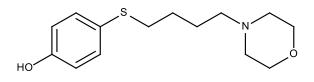


Catalog # 10-1124 MoTP

CAS# 57055-82-0 4-(4-Morpholinobutylthio)phenol Lot # X10132



Specifically ablates zebrafish larval melanocytes. Melanocytotoxicity is dependent on tyrosinase activity^{1,2}. A useful tool for elucidating melanocyte stem cell regeneration, recruitment and maintenance³⁻⁵.

- 1) Yang et al. (2006), Small molecule-induced ablation and subsequent regeneration of larval zebrafish melanocytes; Development, **133** 3563
- 2) Yang et al. (2007), Mutations in gfpt1 and skiv2l2 cause distinct stage-specific defects in larval melanocyte regeneration in zebrafish; PLoS Genet., **3** e88
- 3) Hultman et al. (2009), Defects in ErbB-dependent establishment of adult melanocyte stem cells reveal independent origins for embryonic and regeneration melanocytes; PLoS Genet., **5** e1000544
- 4) Hultman et al. (2010), Differential contribution of direct-developing and stem cell-derived melanocytes to the zebrafish larval pigment pattern; Dev. Biol., **337** 425
- 5) Hultman et al. (2008), Small molecule modifier screen for kit-dependent functions in zebrafish embryonic melanocytes; Zebrafish, **5** 279

PHYSICAL DATA

Molecular Weight:	267.39
Molecular Formula:	C ₁₄ H ₂₁ NO ₂ S
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml), Ethanol (up to 25 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at room temperature 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.

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