



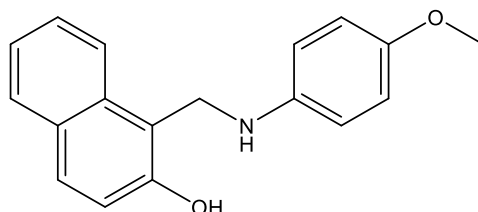
Catalog # 10-1562

NSC47924

CAS# 6638-24-0

1-((4-Methoxyanilino)methyl)-2-naphthol

Lot # S102114



A potent inhibitor of the Leucine-rich repeat protein phosphatase (PHLPP), an enzyme which is a negative regulator of Akt and PKC (IC₅₀=4 μM).¹ Increases AKT signaling in cells and prevents apoptosis. Also inhibits the 67 kDa laminin receptor (LR) interaction with laminin (LM) and selectively blocks LR-293 cell adhesion to LM (IC₅₀=19.35 μM) impairing cell migration and invasion.² Affects 37/67 kDa LR cell surface localization and interaction with cellular prion protein.³

- 1) Sierecki *et al.* (2010), *Discovery of small molecule inhibitors of the PH domain leucine-rich repeat protein phosphatase PHLPP by chemical and virtual screening*; J. Med. Chem., **53** 6899
- 2) Pesapane *et al.* (2015), *Discovery of new small molecules inhibiting 67 kDa laminin receptor interaction with laminin and cancer cell invasion*; Oncotarget, **6** 18116
- 3) Samataro *et al.* (2016), *The 37/67 kDa laminin receptor (LR) inhibitor, NSC47924, affects 37/67 kDa LA cell surface localization and interaction with the cellular prion protein*; Sci. Rep., **6** 24457

PHYSICAL DATA

Molecular Weight:	279.33
Molecular Formula:	C ₁₈ H ₁₇ NO ₂
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 30 mg/ml) or Ethanol (up to 10 mg/ml with warming)
Physical Description:	Yellow 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.