

Catalog No. 11216-055 5 mg

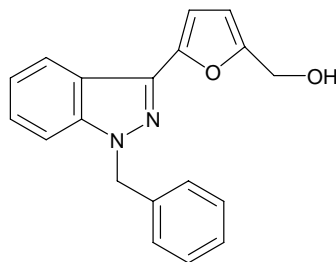
PRODUCT: YC-1
3-(5'-Hydroxymethyl-2'-furyl)-1-benzylindazole

CAS NO: 154453-18-6

CATALOG NO.: 11216-055

SIZE: 5 mg

STRUCTURE:



PHYSICAL APPEARANCE: Solid

MOLECULAR FORMULA: C₁₉H₁₆N₂O₂

MOLECULAR WEIGHT: 304.4

PURITY: 98% by TLC

SOLUBILITY: Soluble in DMSO

STORAGE: Store, as supplied, at -20°C for up to 1 year. Store solutions at -20°C for up to 3 months.

APPLICATION NOTES: An NO-independent, superoxide sensitive, cell permeable activator of soluble guanylyl cyclase (sGC), EC₅₀=18.6µM. Induces concentration-dependent increase in cGMP levels in cultured cells and in rabbit aortic rings, EC₅₀=20µM¹. Inhibits platelet adhesion to collagen. Potentiates NO-induced sGC activation². Activation of sGC has both heme-dependent and heme-independent components³. Some sGC-independent effects have been reported including induction of apoptosis⁴ and inhibition of extracellular of Ca²⁺ entry⁵. YC-1 Inhibits HIF-1α activity in tumors. This inhibition is associated with blocked angiogenesis and inhibition of tumor growth⁶. Active *in vivo*. The product is not sterile.

- REFERENCES:
1. A. Mulsch *et al. Br. J. Pharmacol.* 1997 **120** 681
 2. K. Schmidt *et al. Mol. Pharmacol.* 2001 **59** 220
 3. E. Martin *et al. Proc. Natl. Acad. Sci. USA* 2001 **98** 12938
 4. R. Ferrero *et al. Neuropharmacology* 2001 **41** 895
 5. J.P. Wang *et al. Biochem. Pharmacol.* 2001 **62** 679
 6. E.J. Yeo *et al. J. Natl. Cancer Inst.* 2003 **95**:516

The pharmacological and toxicological properties of this product have not been fully investigated. Exercise caution in use and handling. This product must not be used in humans.