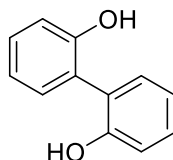


2,2'-Biphenol

Code No.: **BIA-B2333**

Pack sizes: **25 mg, 100 mg**



Synonyms : 2,2'-Bisphenol, 2,2'-Dihydroxy-1,1'-biphenyl, 2,2'-Dihydroxybiphenyl, 2,2'-Dihydroxydiphenyl, 2'-Hydroxy-1,1'-biphenyl-2-ol, NSC 37068

Specifications

CAS #	: 1806-29-7
Molecular Formula	: C₁₂H₁₀O₂
Molecular Weight	: 186.21
Source	: Synthetic
Appearance	: Off-white solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

2,2'-Biphenol, a metabolic product of benzene, is cytotoxic and has potent anti-inflammatory and antioxidant effects. 2,2'-Biphenol inhibits LPS-stimulated COX-2 expression and AP-1 and NF-kappaB binding to their consensus sequences at 1-10 μ M. 2,2'-Biphenol inhibits topoisomerase II following bioactivation with peroxidase and inhibits growth and AKT/mTOR and Notch signaling in B16-F10 melanoma cells.

References

1. Antioxidant and cyclooxygenase-2-inhibiting activity of 4,4'-biphenol, 2,2'-biphenol and phenol. Murakami Y. et al. *Anticancer Res* 2009, 29, 2403.
2. Targeting drivers of melanoma with synthetic small molecules and phytochemicals. Strickland L.R. et al. *Cancer Lett.* 2015, 359, 20.
3. Inhibition of human topoisomerase II in vitro by bioactive benzene metabolites. Frantz C.E. et al. *Environ Health Perspect.* 1996, 104(Suppl 6), 1319.