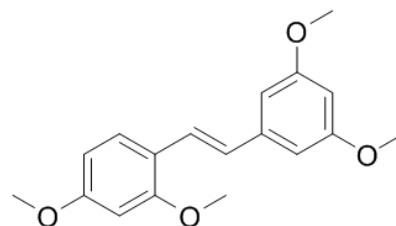


Product Name : CYP1B1 inhibitor TMS
Cat. No. : PC-45614
CAS No. : 24144-92-1
Molecular Formula : C₁₈H₂₀O₄
Molecular Weight : 300.349
Target : Cytochrome P450 (CYPs)
Solubility : 10 mM in DMSO



Biological Activity

TMS is a potent and selective inhibitor of the EROD activity of **P450 1B1 (CYP1B1)** with IC₅₀ of 6 nM.

TMS exhibits 50-fold selectivity for P450 1B1 over P450 1A1 (IC₅₀=300 nM) and 500-fold selectivity for P450 1B1 over P450 1A2 (IC₅₀=3 μM).

TMS blocks the conversion of estradiol to 4-OH-estradiol, inhibits tubulin polymerization and microtubule formation, causes cell cycle block at the G2-M phase, and induces apoptosis.

TMS significantly attenuates hypoxic PAH and hypoxic+SU5416 PAH in vivo (3mg/kg, i.p.).

References

Chun YJ, et al. **Cancer Res.** 2001 Nov 15;61(22):8164-70.

Park H, et al. **Cancer Res.** 2007 Jun 15;67(12):5717-26.

White K, et al. **Circulation.** 2012 Aug 28;126(9):1087-98.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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