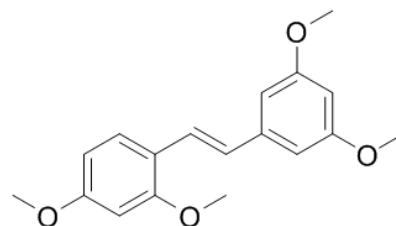


**Product Name** : TMS  
**Cat. No.** : PC-45614  
**CAS No.** : 24144-92-1  
**Molecular Formula** : C<sub>18</sub>H<sub>20</sub>O<sub>4</sub>  
**Molecular Weight** : 300.349  
**Target** : Cytochrome P450 (CYPs)  
**Solubility** : 10 mM in DMSO



## Biological Activity

A potent and selective inhibitor of the EROD activity of P450 1B1 with IC<sub>50</sub> of 6 nM; exhibits 50-fold selectivity for P450 1B1 over P450 1A1 (IC<sub>50</sub>=300 nM) and 500-fold selectivity for P450 1B1 over P450 1A2 (IC<sub>50</sub>=3 μM); blocks the conversion of estradiol to 4-OH-estradiol, inhibits tubulin polymerization and microtubule formation, causes cell cycle block at the G<sub>2</sub>-M phase, and induces apoptosis; 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!**

E-mail: tech@probechem.com