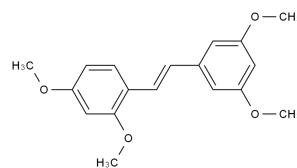


Product Name : TMS
Synonyms : 2,3',4,5'-Tetramethoxystilbene
Cat No. : M13695
CAS Number : 24144-92-1
Molecular Formula : C₁₈H₂₀O₄
Formula Weight : 300.35
Chemical Name : (E)-1-(3,5-dimethoxystyryl)-2,4-dimethoxybenzene



Description : TMS is a very selective and potent competitive inhibitor of P450 1B1 (CYP1A1). It has strong selectivity among P450 family 1 enzymes. TMS exhibits 50-fold selectivity for P450 1B1 over P4501A1 and 500-fold selectivity for P450 1B1 over P450 1A2.

Pathway : Metabolic Enzyme/Protease

Target : P450

Receptor : CYP450 1B1

Solubility : DMSO: 10 mM

SMILES : COC1=CC(OC)=CC(/C=C/C2=CC=C(OC)C=C2OC)=C1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Einem Lindeman T, et al. The resveratrol analogue, 2,3',4,5'-tetramethoxystilbene, does not inhibit CYP gene expression, enzyme activity and benzoapyrene-Dna adduct formation in MCF-7 cells exposed to benzoapyrene. Mutagenesis. 2011 Sep;26(5):629-35.