

## Product Data Sheet

Product Name: 4-methoxy Estrone

Cat. No.: GC49562

### Chemical Properties

Cas. No. 58562-33-7

SMILES C[C@@]12[C@](CCC2=O)([H])[C@@]3([H])[C@@](CC1)([H])C4=CC=C(O)C(OC)=C4CC3

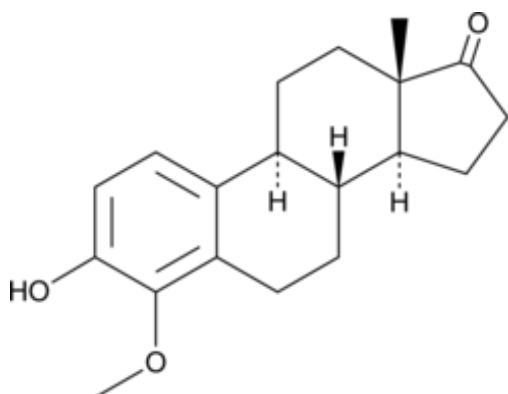
Formula C<sub>19</sub>H<sub>24</sub>O<sub>3</sub> M.Wt 300.4

Solubility Chloroform: slightly soluble, Methanol: slightly soluble Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



### Background

4-methoxy Estrone is an active metabolite of the endogenous estrogen estrone.<sup>1</sup> It is formed from estrone by catechol-O-methyltransferase (COMT). 4-methoxy Estrone (10 and 100 nM) increases the proliferation of human umbilical vein endothelial cells (HUVECs).<sup>2</sup>

1. Dawling, S., Roodi, N., Mernaugh, R.L., et al. Catechol-O-methyltransferase (COMT)-mediated metabolism of catechol estrogens: Comparison of wild-type and variant COMT isoforms. *Cancer Res.* 61(18):6716-6722 (2001). 2. Lippert, C., Seeger, H., Mueck, A.O., et al. The effects of A-ring and D-

**Caution: Product has not been fully validated for medical applications. For research use only.**

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ring metabolites of estradiol on the proliferation of vascular endothelial cellsLife Sci.67(13)1653-1658(2000)

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