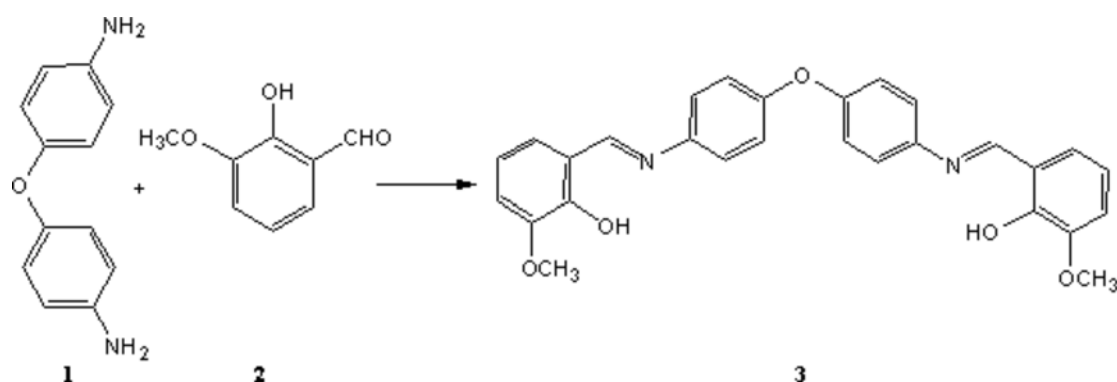


# Synthesis of 2-({4-(4-[(E)-1-(2-hydroxy-3-methoxyphenyl)methylidene]amino}phenoxy)phenyl]imino)methyl)- 6 -methoxy phenol

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A mixture of 4,4'-diaminodiphenyl ether **1** (1.00 g, 5.00 mmol), o-vanillin **2** (1.52 g, 10.00 mmol) in methanol (40.00 mL) was stirred at room temperature for one hour to give an orange precipitate. Then it was filtered and washed with methanol to give the pure imine **3** (2.27 g, 97.00 %).

m.p. 134-136 °C.

IR (KBr) ( $\text{cm}^{-1}$ ): 1620.4(C=N), 3050-3300 (OH)

<sup>1</sup>H-NMR (DMSO) (250 MHz)  $\delta$ (ppm): 3.87 (6H, s, 2OCH<sub>3</sub>), 6.59-7.40 (14H, m, 4Ph), 8.59 (2H, s, N=CH), 13.61 (2H, s, OH)

<sup>13</sup>C- NMR (DMSO) (62.90 MHz)  $\delta$ (ppm): 56.60 (OCH<sub>3</sub>), 115.29-134.1 (aromatic carbons), 161.96 (C=N)

MS (m/z, %): 468(M<sup>+</sup>, 21.5), 406 (HOPh(O)C=NPhOPHN=CPh), 17.5), 242 (CH<sub>3</sub>OPhOHC=NPh(O), 6), 150 (CH<sub>3</sub>OPhOHC=N, 18.7), 136 (CH<sub>3</sub>OPhOHCH, 6.3), 123 (CH<sub>3</sub>OPhOH, 10), 119(Ph(O)N=CH, 5.1), 76 (PhH), 43 (C-OCH<sub>3</sub>, 100), 41 (C=C-OH, 94).

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*Sample availability:* Available from MDPI

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