PRODUCT INFORMATION

5,6-dihydroxy Indole
Item No. 20630

CAS Registry No.: 3131-52-0
Formal Name: 1H-indole-5,6-diol
Synonym: Dopamine lutine
MF: C_8H_7NO_2
FW: 149.1
Purity: ≥98%
UV/Vis.: \( \lambda_{\text{max}}: 274, 302 \ \text{nm} \)
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

5,6-dihydroxy Indole is supplied as a crystalline solid. A stock solution may be made by dissolving the 5,6-dihydroxy indole in the solvent of choice. 5,6-dihydroxy Indole is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of 5,6-dihydroxy indole in ethanol and DMF is approximately 10 mg/ml and approximately 3 mg/ml in DMSO. 5,6-dihydroxy Indole is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 5,6-dihydroxy indole should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 5,6-dihydroxy Indole has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

5,6-dihydroxy Indole is an intermediate in melanogenesis.\textsuperscript{1,2} Its precursor is dopachrome. 5,6-dihydroxy Indole can be metabolized to either eumelanin or pheomelanin, depending, in part, on the availability of cysteine.

References