

Iodonitrotetrazolium chloride

Cat. No. CSUB-0341

Lot. No. (See product label)

Introduction

Applications

Electron acceptor for the colorimetric assay of various dehydrogenases. Iodonitrotetrazolium (INT) is a tetrazolium dye precursor that forms a purple formazan dye on reduction and has been used in a variety of applications. It is considered to have higher reactivity than some tetrazolium compounds, at least with respect to succinate dehydrogenase, with optimal results obtained using a concentration of 0.8 mM INT. INT is used as an electron acceptor for the colorimetric assays of: lactate dehydrogenase, xanthine dehydrogenase, lactyl-CoA dehydrogenase, succinate dehydrogenase, BBM II ketolisomerase, histidinol dehydrogenase and diverse other hydrolases.

Synonyms

2-(4-Iodophenyl)-3-(4-nitrophenyl)-5-phenyl-2H-tetrazolium chloride; p-Iodonitrotetrazolium Violet; INT

Product Information

EC Number 205-676-2

CAS No. 146-68-9

Molecular Formula C₁₉H₁₃ClIN₅O₂

Molecular Weight 505.70

Solubility methanol: water (1:1): soluble 50 mg/mL, very faintly turbid, very deep yellow (hot)

mp 240 °C (dec.) (lit.)

Substrates Lactyl-CoA Dehydrogenase