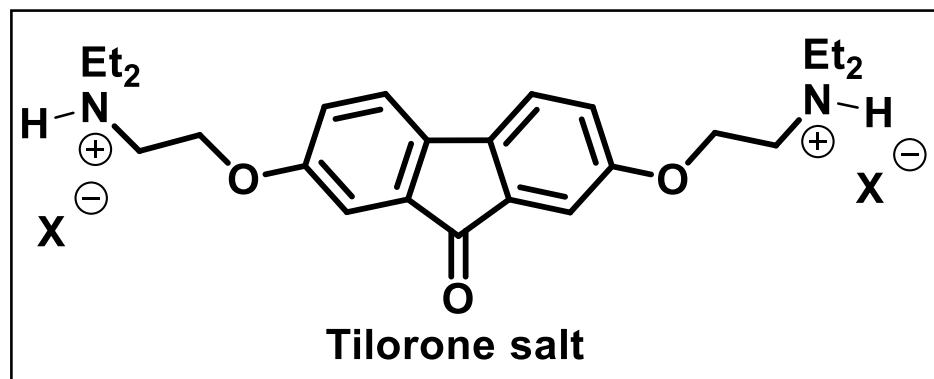
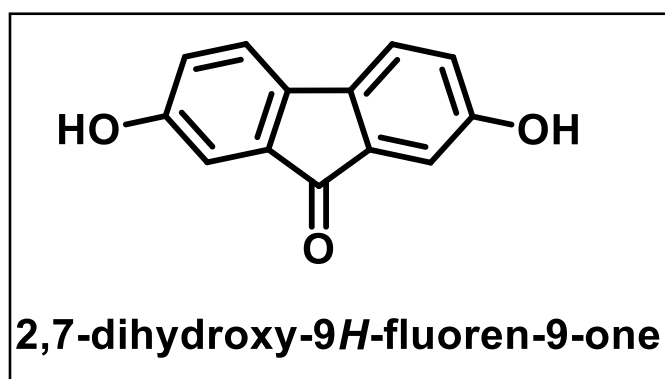


An improved process for 2,7-dihydroxyfluorenone in the manufacture of tilorone and its salts

INTRODUCTION: Tilorone (available under the brand names Amixin^R, Lavomax^R and others) is an orally bioavailable interferon inducer. It has a broad-spectrum applications in antiviral activities through an IFN-related innate immunity pathway. CSIR-IICB has developed an efficient, safe, cost effective and industry friendly process to prepare 2,7 dihydroxy fluorenone towards the total synthesis of Tilorone dihydrochloride and other Tilorone salt forms.



CHALLENGE/APPLICATION DOMAIN: IICB has developed an environment friendly and cost effective process using inexpensive reagents. Throughout, Crystallization technique has been used for purification.

OPPORTUNITY: Competing technology is not available at present and Pharma and fine chemical industry can employ this cost-effective IICB- process for tilorone, an antiviral drug.

STAGE OF TECHNOLOGY DEVELOPMENT: Novel process for manufacturing a prescription drug, Ready for transfer.

REFERENCES/ PATENTS : Indian Patent filed 0211NF2020; 15-Dec-2020
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