

MEDICINAL CHEMISTRY-I – BP402T

UNIT: 2

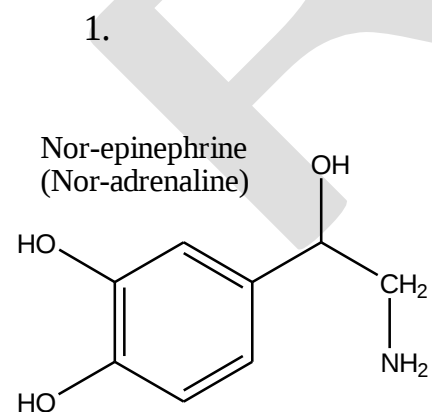
CLASS: 2

TOPIC: BIOSYNTHESIS OF CATECHOLAMINES**CATECHOLAMINE BIOSYNTHESIS**

Catecholamines are the compounds possess a catechol moiety on benzene ring with two adjacent –OH groups and amide side chain.

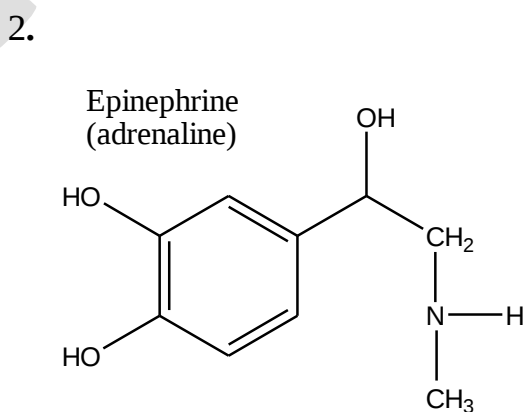
-3 Amines i.e Epinephrine ,Nor Epinephrine & Dopamine are called biological Catecholamines as it is synthesized by biological process .Isoprenaline is a synthetic Catecholamines

-Except this some drugs act as sympathomimetic ,these are like Phenyl epinephrine ,Naphazoline ,Oxymetazoline, Terbutaline, Salbutamol, Salmeterol & Metaraminol

Structure and synthesis of Catecholamines:-**Structure:**

1,2-benzenediol 4-(amino ethanol)

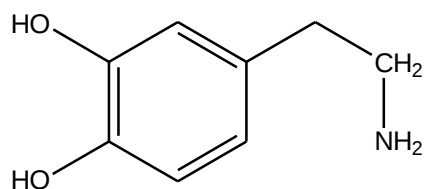
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1,2-benzenediol 4-(methyl amino ethanol)

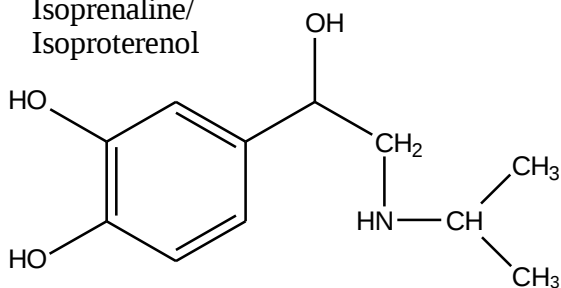
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Dopamine



1,2-benzenediol 4-(amino ethyl)

Isoprenaline/
Isoproterenol



1,2-benzenediol 4-(isomethyl amino ethanol)

Synthesis:-

