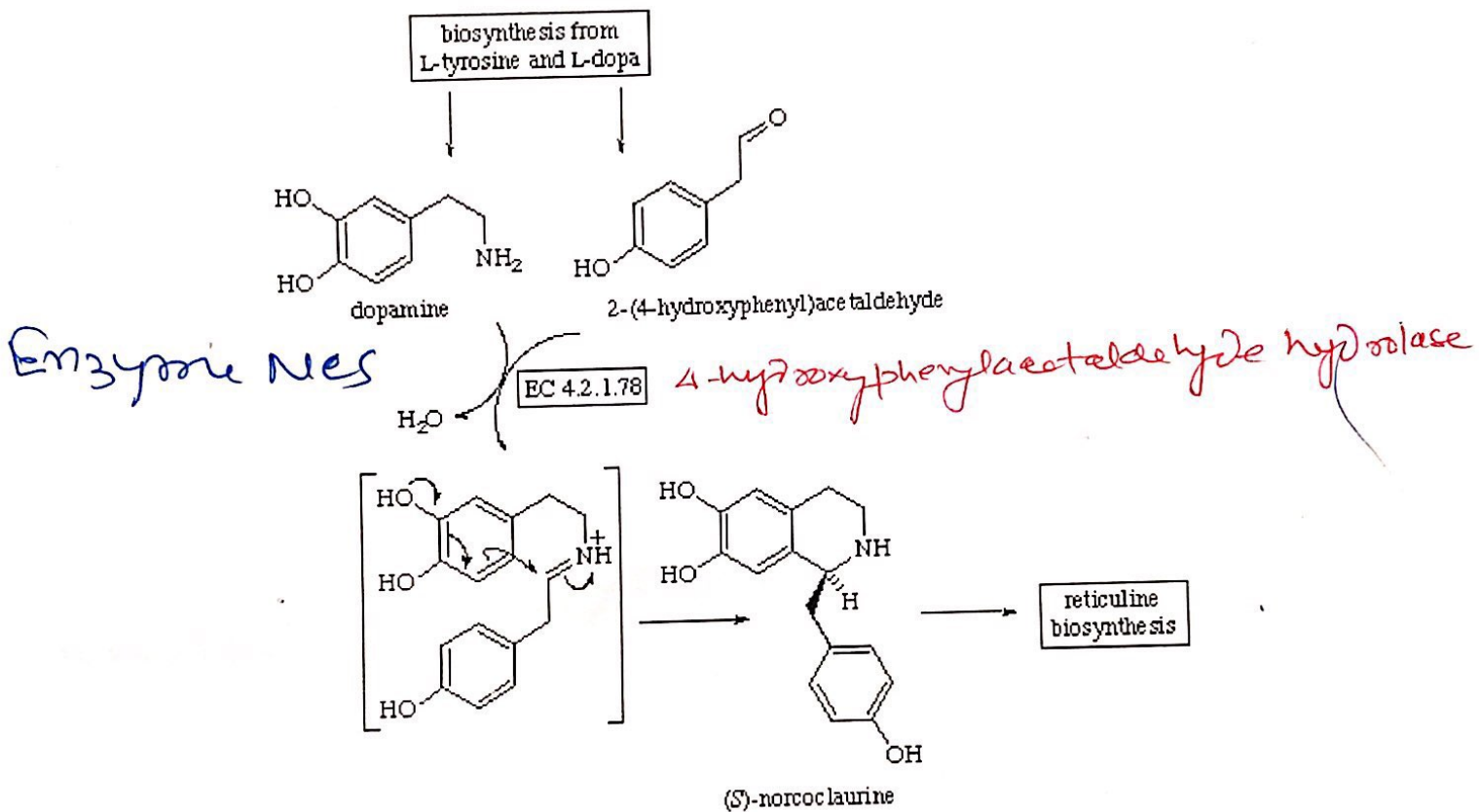


(S)-Norcoclaurine Synthase

(Precursor of the benzyloquinoline alkaloids)

When cursor points to a box further details will be displayed in a tooltip window. If you click on the box you will change to the appropriate enzyme specification.



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[L-tyrosine and L-dopa biosynthesis](#)

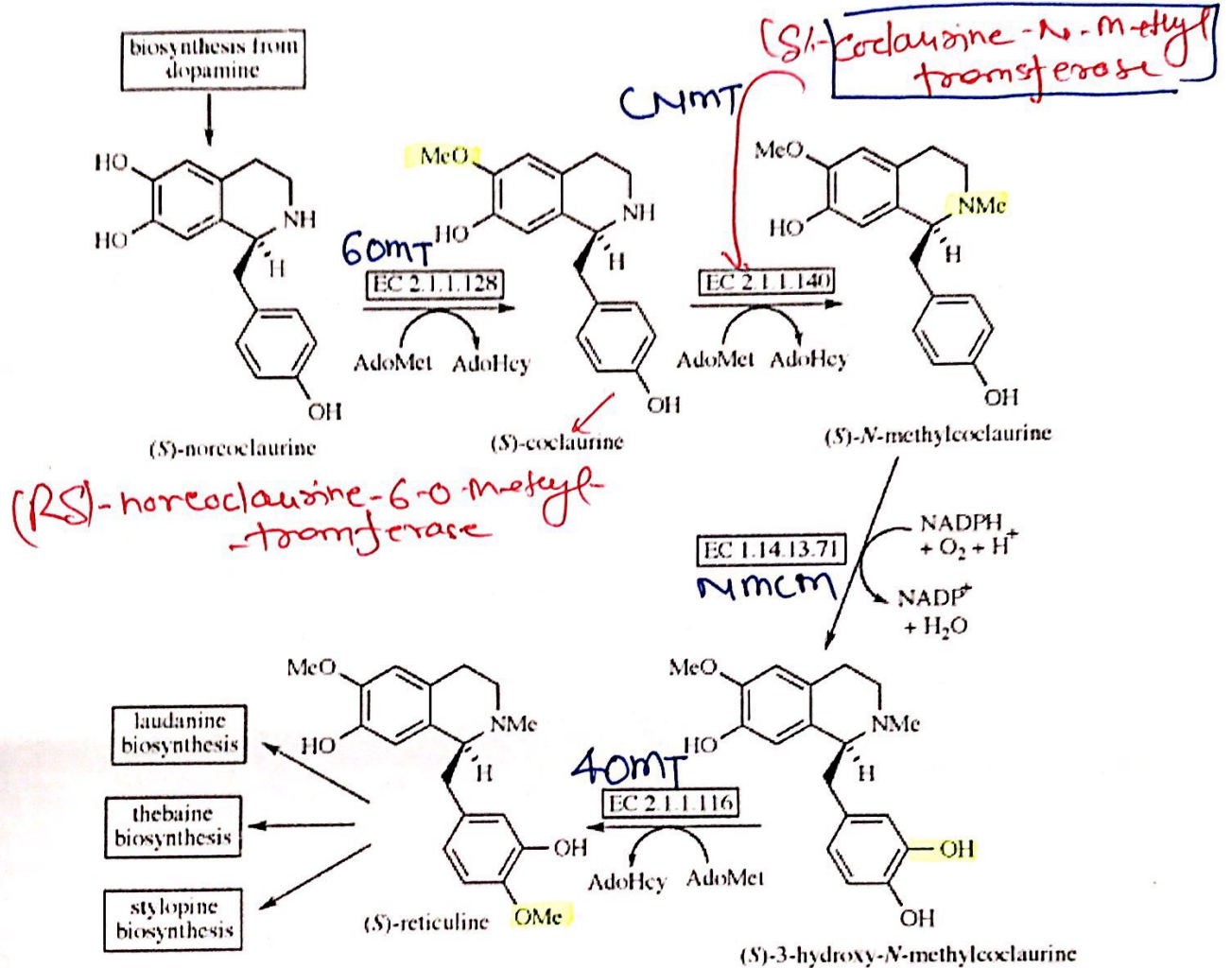
[\(S\)-norcoclaurine to \(S\)-reticuline biosynthesis](#)

[EC 4.2.1.78 \(S\)-norcoclaurine synthase](#) NES

Reticuline biosynthesis



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[\(S\)-norcoclaurine synthase scheme](#)

[EC 1.14.13.71 N-methylcoclaurine 3'-monooxygenase](#) *NMCM*

[EC 2.1.1.116 3'-hydroxy-N-methyl-\(S\)-coclaurine 4'-O-methyltransferase](#) *4OMT*

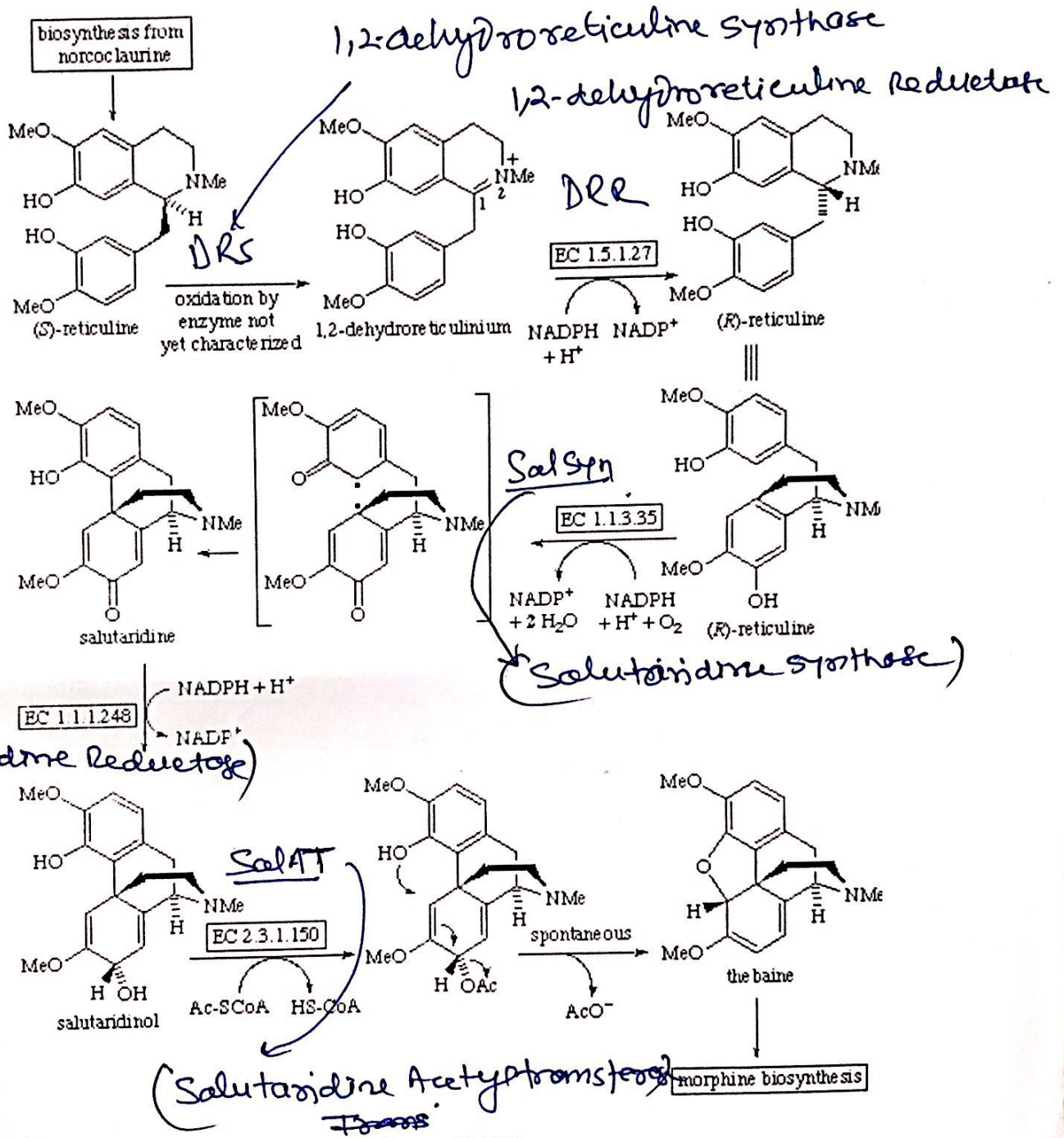
[EC 2.1.1.128 \(RS\)-norcoclaurine 6-O-methyltransferase](#) *6OMT*

[EC 2.1.1.140 \(S\)-coclaurine-N-methyltransferase](#) *CNMT*

Thebaine biosynthesis

3

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[norcoclaurine to reticuline biosynthesis](#)

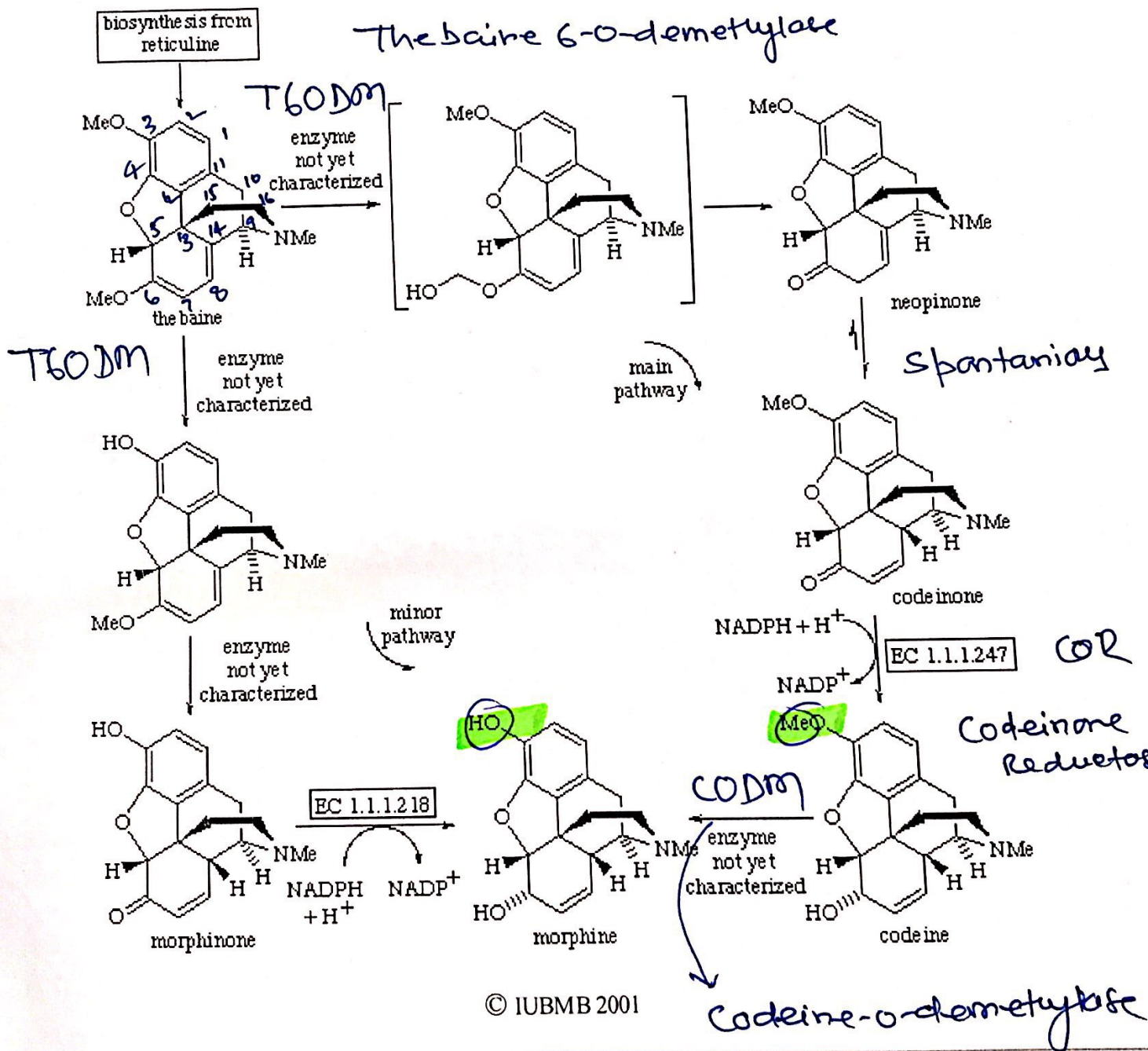
[thebaine to morphine biosynthesis](#)

<http://www.chem.qmul.ac.uk/iubmb/enzyme/reaction/alkaloid/thebaine.html>

Morphine biosynthesis

(7)

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- [reticuline to thebaine biosynthesis](#)
- [EC 1.1.1.218 morphine 6-dehydrogenase](#)
- [EC 1.1.1.247 codeinone reductase \(NADPH\)](#)