

Structure and function of Hemoglobin as a respiratory pigment

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| 1) Made up of _____ known as globin in red blood cells | <div>quaternary</div> |
| 2) Conjugated protein with a _____ structure | <div>heme</div> |
| 3) Consists of 4 _____ chains | <div>protein</div> |
| 4) Each chain attached to one _____ group | <div>iron</div> |
| 5) An _____ atom is located at the centre of heme group | <div>four</div> |
| 6) Each iron atom can bind with _____ molecule of O ₂ | <div>polypeptide</div> |
| 7) One Hb molecule can bind with _____ O ₂ molecules | <div>reversibly</div> |

Hemoglobin as respiratory pigment

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| 8) Has _____ affinity to O ₂ although the partial pressure of O ₂ is _____ | <div>low</div> |
| | <div>release</div> |
| 9) Can _____ O ₂ easily when partial pressure of O ₂ drops | <div>High</div> |
| 10) Can bind _____ with O ₂ | <div>cooperatively</div> |
| 11) Can bind & releases O ₂ molecule _____. | <div>one</div> |

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