

Table 1. Classes of ribonucleotide reductases

Class	Cofactor	Free radical	Subunit composition	Source organisms	Substrate
I	$\text{Fe}^{3+}\text{-O-Fe}^{3+}$	Tyrosine	$\alpha_2\beta_2$	Eukaryotes <i>E. coli</i> (aerobic) Some bacteria Some viruses	NDP
II	Coenzyme B ₁₂	Cysteine	α	<i>Lactobacillus</i> <i>Rhizobium</i>	NDP & NTP
III	FeS cluster	Glycine	$\alpha_2\beta_2$	<i>E. coli</i> (anaerobic) Methanogens Some facultative anaerobes Bacteriophage T4	NTP
IV	$\text{Mn}^{3+}\text{-O-Mn}^{3+}$	Unknown	$\alpha_2\beta$	<i>Brevibacterium ammoniagenes</i>	NDP