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Procollagen-Proline Dioxygenase

National Cancer Institute

Source

National Cancer Institute. *Procollagen-Proline Dioxygenase*. NCI Thesaurus. Code C116402.

A tetrameric enzyme complex that catalyzes the post-translational formation of 4-hydroxyproline in the amino acid sequence -Xaa-Pro-Gly-, which is found in collagens and other proteins. The enzyme complex is comprised of two alpha chains and two beta chains. There are 3 separate genes that encode 3 distinct alpha proteins, prolyl 4-hydroxylase subunit alpha-1, -2 and -3. The beta chain is protein disulfide-isomerase.