ENZYME NOMENCLATURE

Recommendations (1978) of the Nomenclature Committee of the International Union of Biochemistry



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ENZYME NOMENCLATURE 1978



RECOMMENDATIONS OF THE NOMENCLATURE COMMITTEE OF THE INTERNATIONAL UNION OF BIOCHEMISTRY ON THE NOMENCLATURE AND CLASSIFICATION OF ENZYMES

This edition is a revision of the Recommendations (1972) of the IUPAC-IUB Commission on Biochemical Nomenclature, and has been approved for publication by the Executive Committee of the International Union of , Biochemistry.

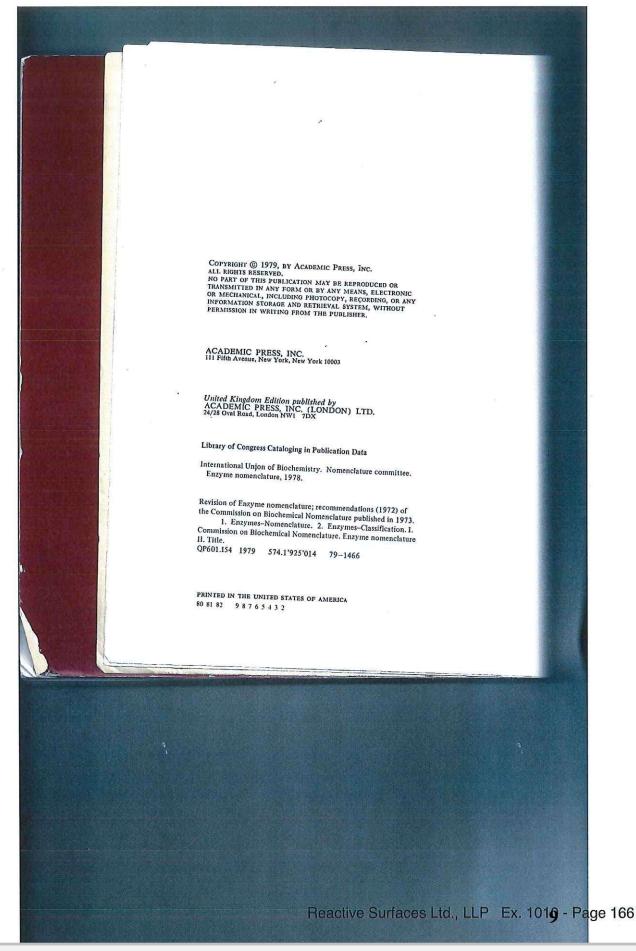


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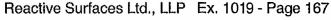




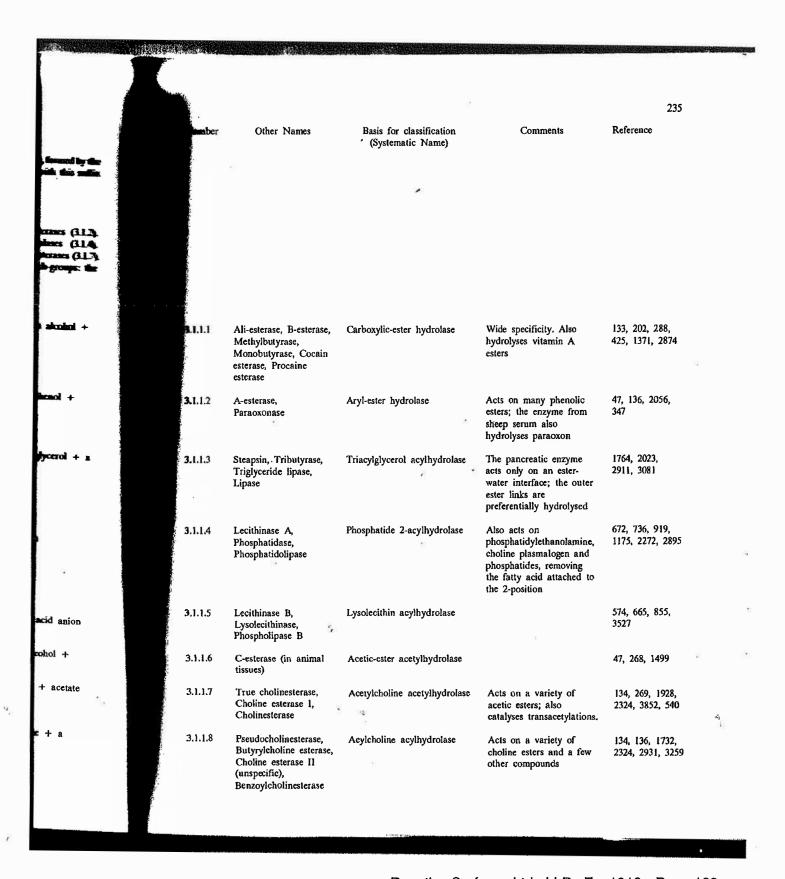




234 Reaction Recommended Name Number While the systematic name always includes 'hydrolase', the recommended name is, in most cases, formed by the name of the substrate with the suffix -use. It is understood that the name of the substrate with this suffix means a hydrolytic enzyme. 3.1 ACTING ON ESTER BONDS The esterases are subdivided into those acting on carboxylic esters (3.1.1), thiolesterases (3.1.2), phosphoric monoester hydrolases, the phosphatases (3.1.3), phosphodiester hydrolases (3.1.4), triphosphoric monoester hydrolases (3.1.5), sulphatases (3.1.6), and diphosphoric monoesterases (3.1.7). The nucleases, previously included under 3.1.4, are now placed in a number of new sub-groups: the exonucleases (3.1.11-16) and the endonucleases (3.1.21-31). CARBOXYLIC ESTER HYDROLASES A carboxylic ester + H2O = an alcohol + Carboxylesterase 3,1.1.1 a carboxylic acid anion A phenyl acetate + H2O = a phenol + 3.1.1.2 Arylesterase acetate Triacylglycerol + H2O = diacylglycerol + a Triacylglycerol lipase 3.1.1.3 fatty acid anion A lecithin + H_2O = Phospholipase A2 3.1.1.4 1-acylglycerophosphocholine + an unsaturated fatty acid anion A lysolecithin + H2O = Lysophospholipase 3.1.1.5 glycerophosphocholine + a fatty acid anion An acetic ester + H2O = an alcohol + Acetylesterase 3.1.1.6 Acetylcholine + H2O = choline + acetate Acetylcholinesterase 3,1,1,7 An acylcholine + H_2O = choline + a Cholinesterase 3.1.1.8 carboxylic acid anion







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