

Asymmetric Synthesis of Non-Proteinogenic Amino-Acids

By Saghyan, Ashot S. / Langer, Peter

Condition: New. Publisher/Verlag: Wiley-VCH | Optically Pure Non-Proteinogenic alpha-Amino Acids Authored by two internationally recognized experts with an excellent track record, this muchneeded reference summarizes latest research in the rapidly developing field of stereoselective synthesis of enantiomerically enriched amino acids, particularly of non-proteinogenic origin. It highlights several different catalytic and stoichiometric asymmetric methods for their synthesis and also provides information on origin, biological properties, different synthetic strategies and important applications in medicine and pharmacology.Essential reading for synthetic chemists working in the field of asymmetric synthesis, natural products and peptide synthesis, stereochemistry, medicinal chemistry, biochemistry, pharmacology, and biotechnology. Introduction1. NON-PROTEIN ALPHA-AMINO ACIDS, ASPECTS OF THEIR APPLICATION1.1. Natural Origin, Biological Functions1.2. Amino Acids as Radiopharmaceuticals in PET Diagnostics2. NATURAL SYNTHESIS OF AMINO ACIDS, MECHANISMS AND MODELING2.1. Regularity of Mechanisms for the Natural Synthesis of Amino Acids2.2. Systems for Modeling Some Aspects of Pyridoxal Enzyme Action 2.3. Modeling of Processes Associated with Cleavage of C-alpha-H and Calpha-C-beta Bonds2.4. Modelling of alpha. beta-Elimination Processes of PP-Catalysis, Kinetics and Stereochemistry2.5. Biomimetic Addition Reaction of Nucleophiles to Co(III) Complexes Of Dehydroaminobutyric Acid3. ASYMMETRIC SYNTHESIS OF NON-PROTEIN ALPHA-AMINO ACIDS3.1. The Main Rules of Asymmetric Synthesis3.2. Catalytic Asymmetric Synthesis3.3. Stoichiometric Asymmetric Synthesis of Alpha-Amino Acids | Format:...



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