

List of Publications on DIOZ-Chemistry

- 623 Tobias Hintermann, Dieter Seebach
A Useful Modification of the Evans Auxiliary: 4-Isopropyl-5,5-diphenyloxazolidin-2-one
Helv. Chim. Acta **81**, 2093 - 2126 (1998)
- 657 Meinrad Brenner, Dieter Seebach
Enantioselective Preparation of γ -Amino Acids and γ -Lactams from Nitro Olefins and Carboxylic Acids, with the Valine-Derived 4-Isopropyl-5,5-diphenyl-1,3-oxazolidin-2-one as an Auxiliary
Helv. Chim. Acta **82**, 2365 - 2379 (1999)
- 667 Christoph Gaul, Dieter Seebach
A Valine-Derived Lithiated 3-Methylthiomethyl-1,3-oxazolidin-2-one for Enantioselective Nucleophilic Hydroxymethylation, Formylation, and Alkoxy carbonylation of Aldehydes
Org. Lett. **2**, 1501 - 1504 (2000)
- 687 Christoph Gaul, Kaspar Schärer, Dieter Seebach
Lithiated 4-Isopropyl-3-(methylthiomethyl)-5,5-diphenyloxazolidin-2-one: A Chiral Formyl Anion Equivalent for Enantioselective Preparations of 1,2-Diols, 2-Amino Alcohols, 2-Hydroxy Ester, and 4-Hydroxy-2-alkenoates
J. Org. Chem. **66**, 3059-3073 (2001)
- 694 Karl Gademann, Thierry Kimmerlin, Daniel Hoyer, Dieter Seebach
Peptide Folding Induces High and Selective Affinity of a Linear and Small β -Peptide to the Human Somatostatin Receptor 4
J. Med. Chem. **44**, 2460-2468 (2001)
- 701 Christoph Gaul, Per I. Arvidsson, Walter Bauer, Robert E. Gawley, Dieter Seebach
Computational, ReactIR-, and NMR-Spectroscopic Investigations on the Chiral Formyl Anion Equivalent *N*-(α -Lithiomethylthiomethyl)-4-isopropyl-5,5-diphenyloxazolidin-2-one and Related Compounds
Chem. Eur. J. **7**, 4117 – 4125 (2001)
- 702 Dieter Seebach, Albert K. Beck, Meinrad Brenner, Christoph Gaul, Alexander Heckel
From Synthetic Methods to γ -Peptides – From Chemistry to Biology
Chimia **55**, 831-838 (2001)

- 714 Dieter Seebach, Meinrad Brenner, Magnus Rueping, Bernhard Jaun
 γ^2 -, γ^3 -, and $\gamma^{2,3,4}$ -Amino Acids, Coupling to γ -Hexapeptides: CD Spectra, NMR Solution and X-ray Crystal Structures of γ -Peptides
Chem. Eur. J. **8**, 573-584 (2002)
- 718 Christoph Gaul, Dieter Seebach
Conjugate Addition of Lithiated (S)-4-Isopropyl-3-[(methylthio)methyl]-5,5-diphenyloxazolidin-2-one to Cinnamoyl Derivatives: Preparation of Enantiomerically Pure 1,4-Diols
Helv. Chim. Acta **85**, 772-787 (2002)
- 722 Christoph Gaul, Dieter Seebach
Metallations and Reactions with Electrophiles of 4-Isopropyl-5,5-diphenyloxazolidin-2-one (DIOZ) with N-Allyl and N-Propargyl Substituents: Chiral Homoenolate Reagents
Helv. Chim. Acta **85**, 963-978 (2002)
- 724 Christoph Gaul, Bernd W. Schweizer, Paul Seiler, Dieter Seebach
Crystal Structures – A Manifesto for the Superiority of the Valine-Derived 5,5-Diphenyloxazolidinone as an Auxiliary in Enantioselective Organic Synthesis
Helv. Chim. Acta **85**, 1546-1566 (2002)
- 747 Dieter Seebach, Laurent Schaeffer, François Gessier, Pascal Bindschädler, Corinna Jäger, Delphine Josien, Sacha Kopp, Gérald Lelais, Yogesh Mahajan, Peter Micuch, Radovan Sebesta, Bernd W. Schweizer
Enantioselective Preparation of (S)-2-Aminomethyl-Carboxylic Acid Derivatives: Solving the β 2-Amino Acid-Problem with the Chiral Auxiliary 4-Isopropyl-5,5-diphenyloxazolidin-2-one (DIOZ).
Helv. Chim. Acta **86**, 1852 - 1861 (2003)
- 753 Radovan Sebesta, Dieter Seebach
Preparation of (S,S)-Fmoc- β^2 hIle-OH, (S)-Fmoc- β^2 hMet-OH, and (S)-Fmoc- β^2 hTyr(tBu)-OH for Solid-Phase Syntheses of β^2 - and β^2/β^3 -Peptides
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- 756 M. Brenner, L. La Vecchia, T. Leutert, D. Seebach
(4S)-4-(1-Methylethyl)-5,5-Diphenyl-2-Oxazolidinone
Organic Syntheses **80**, 57 - 65 (2003)

- 760 Dieter Seebach, Kenji Namoto, Yogesh R. Mahajan, Pascal Bindschädler, Rainer Sustmann, Michael Kirsch, Neil S. Ryder, Markus Weiss, Markus Sauer, Christian Roth, Sabine Werner, Hans-Dietmar Beer, Christine Munding, Peter Walde, Matthias Voser
Chemical and Biological Investigations of β -Oligoarginines
Chemistry & Biodiversity **2004**, Vol. 1, Nr. 1, 65 – 97
- 763 Gérald Lelais, Dieter Seebach
 β^2 -Amino Acids – Syntheses, Occurrence in Natural Products, and Components of β -Peptides¹
Biopolymers (Peptide Science) **76**, 206 – 243 (2004)
- 764 Gérald Lelais, Marino A.Campo, Sascha Kopp, Dieter Seebach
Enantioselective Preparation of β^2 -Amino Acids with Aspartate, Glutamate, Asparagine, and Glutamine Side Chains
Helv. Chim. Acta **87**, 1545 – 1560 (2004)
- 768 Thierry Kimmerlin, Radovan Sebesta, Marino A. Campo, Albert K. Beck, Dieter Seebach
How we drifted into peptide chemistry and where we have arrived at
Tetrahedron **60**, 7455 – 7506 (2004)
- 773 Gerald Lelais, Peter Micuch, Delphine Josien-Lefebvre, Francesco Rossi and Dieter Seebach
Preparation of Protected β^2 - and β^3 -Homocysteine, β^2 - and β^3 -Homohistidine and β^2 -Homoserine for Solid-Phase Syntheses Helv. Chim. Acta **87**, 3131 – 3159 (2004)
- 781 Francois Gessier, Laurent Schaeffer, Thierry Kimmerlin, Oliver Flögel, Dieter Seebach
Preparation of b^2 -Amino Acid Derivatives (b^2 hThr, b^2 hTrp, b^2 hMet, b^2 hPro, b^2 hLys, Pyrrolidine-3-carboxylic Acid) by Using DIOZ as Chiral Auxiliary
Helv. Chim. Acta **88**, 2235 – 2249 (2005)
- 814 J. Constanze Müller-Hartwieg, Luigi LaVecchia, Hartmut Meyer, Albert K. Beck, Dieter Seebach
(R)-2-(Benzylloxycarbonylamino-Methyl)-3-Phenylpropionic Acid (Z- β^2 hPhe-OH): Preparation of a β^2 -Amino acid with the Auxiliary DIOZ
Organic Syntheses **85**, 295 – 306 (2008)

- 819 Dieter Seebach, Albert K. Beck, Stefania Capone, Gildas Deniau, Uroš Grošelj, Engelbert Zass
Enantioselective Preparation of β^2 -Amino-Acid Derivatives for β -Peptide Synthesis
Synthesis **2009**, 1 – 32
- 831 Hanspeter Sprecher, Stefan Pletscher, Manuel Möri, Roger Marti, Christoph Gaul, Krystyna Patora-Komisarska, Ekatarina Otchertianova, Albert K. Beck, Dieter Seebach
Applications of the Chiral Auxiliaries DIOZ and TRIOZ for Conjugate Additions and Comparison with Other Auxiliaries
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