Supporting Information

for Development of Highly Diastereo- and Enantioselective Direct Asymmetric Aldol Reaction of Glycinate Schiff Base with Aldehydes Catalyzed by Chiral Quaternary Ammonium Salts

Takashi Ooi, Minoru Kameda, Mika Taniguchi, and Keiji Maruoka*

*Department of Chemistry, Graduate School of Science, Kyoto University
Sakyo, Kyoto 606-8502 Japan*

(Copies of ^1H and ^{13}C NMR Spectra of All New Compounds)

(4*S,5*S**)-5-Triisopropylsiloxymethyl-2-thiooxoxazoline-4-carboxylic Acid *tert*-Butyl Ester (*cis*-6c)**

(4*S,5*R**)-5-Triisopropylsiloxymethyl-2-thiooxooxazoline-4-carboxylic Acid *tert*-Butyl Ester (*trans*-6c)**

***tert*-Butyl (2*S**,3*S**)-2-Amino-3-hydroxy-6-benzyloxyhexanoate (*anti*-5d)**

***tert*-Butyl (2*S**,3*R**)-2-Amino-3-hydroxy-6-benzyloxyhexanoate (*syn*-5d)**

(4*S,5*S**)-5-(3'-Benzyloxypropyl)-2-thiooxooxazoline-4-carboxylic Acid *tert*-Butyl Ester (*cis*-6d)**

(4*S,5*R**)-5-(3'-Benzyloxypropyl)-2-thiooxooxazoline-4-carboxylic Acid *tert*-Butyl Ester (*trans*-6d)**

***tert*-Butyl (2*S**,3*S**)-2-Amino-3-hydroxy-5-methylhexanoate (*anti*-5e)**

***tert*-Butyl (2*S**,3*R**)-2-Amino-3-hydroxy-5-methylhexanoate (*syn*-5e)**

(4*S,5*S**)-5-(2'-Methylpropyl)-2-thioxooxazoline-4-carboxylic Acid *tert*-Butyl Ester (*cis*-6e)**

(4*S,5*R**)-5-(2'-Methylpropyl)-2-thiooxoxazoline-4-carboxylic Acid *tert*-Butyl Ester (*trans*-6e)**

***tert*-Butyl (2*S**,3*S**)-2-Amino-3-hydroxy-6-heptenoate (*anti*-5h)**

***tert*-Butyl (2*S**,3*R**)-2-Amino-3-hydroxy-6-heptenoate (*syn*-5h)**

(4*S,5*S**)-5-(3'-Butenyl)-2-thiooxoxazoline-4-carboxylic Acid *tert*-Butyl Ester (*cis*-6h)**

(4*S,5*R**)-5-(3'-Butenyl)-2-thiooxooxazoline-4-carboxylic Acid *tert*-Butyl Ester**
(*trans*-6h)

***tert*-Butyl (2*S*,3*S*)-2-Amino-3-hydroxybutanoate (*anti*-5i)**

***tert*-Butyl (2*S*,3*R*)-2-amino-3-hydroxybutanoate (*syn*-5i)**

(4S,5S)-5-Methyl-2-thiooxooxazoline-4-carboxylic Acid *tert*-Butyl Ester (*cis*-6i)

(4*S*,5*R*)-5-Methyl-2-thiooxooxazoline-4-carboxylic Acid *tert*-Butyl Ester (*trans*-6i)

***tert*-Butyl (2*S**,3*S**)-2-Amino-3-phenyl-3-hydroxypropanoate (*anti*-5k)**

***tert*-Butyl (2*S**,3*R**)-2-Amino-3-phenyl-3-hydroxypropanoate (*syn*-5k)**

(4*S,5*S**)-5-Phenyl-2-thiooxooxazoline-4-carboxylic Acid *tert*-Butyl Ester (*cis*-6k)**

(4*S,5*R**)-5-Phenyl-2-thiooxooxazoline-4-carboxylic Acid *tert*-Butyl Ester (*trans*-6k)**