

KRED index :

Enzymes	Substrates	Products	Yields and ee values	References
<i>Lb</i> CRM8	<i>t</i> -butyl 6-cyano-(5 <i>R</i>)-hydroxy-3-oxo-hexanoate	<i>t</i> -butyl 6-cyano-(3 <i>R</i> , 5 <i>R</i>)-dihydroxy hexanoate	1.05 kg·L ⁻¹ d ⁻¹ STY; >99.5% de	Ref 25
<i>Ch</i> KRED12	Ethyl 3-oxo-3-(2-thienyl) propanoate	(<i>S</i>)-3-hydroxy-3-(2-thienyl) propanoate	289 g·L ⁻¹ d ⁻¹ STY; >99.0% ee	Ref 26
<i>Ch</i> KRED20	2-chloro-1-(3,4-difluorophenyl)ethanol	(1 <i>S</i>)-2-chloro-1-(3,4-difluorophenyl) ethanol	150 g·L ⁻¹ (6 h); 99.0% ee	Ref 30
<i>Cg</i> KR1-F92C/F94W	<i>t</i> -butyl 3-oxopiperidine-1-carboxylate	(<i>S</i>)- <i>N</i> -Boc-3-hydroxypiperidine	583 g·L ⁻¹ d ⁻¹ STY; 99.0% ee	Ref 29
<i>Cg</i> KR1 mutants	<i>N</i> -ethyl- <i>N</i> -methyl-2-(3-oxo-2,3-dihydro-1 <i>H</i> -inden-5-yl)acetamide	(<i>S</i>)- <i>N</i> -ethyl-2-(3-hydroxy-2,3-dihydro-1 <i>H</i> -inden-5-yl)- <i>N</i> -methylacetamide	>99.9% ee	Ref 32
<i>Rt</i> SCR9	(<i>S</i>)-6-chloro-5-hydroxy-3-oxohexanoate	<i>tert</i> -butyl (3 <i>R</i> , 5 <i>S</i>)-6-chloro-3,5-dihydroxyhexanoate	753 mmol·L ⁻¹ h ⁻¹ g ⁻¹ ; >99% ee	Ref 76
<i>Ss</i> CRL211H/V127A/L135I	Methyl 8-chloro-6-oxooctanoate	Methyl (<i>R</i>)-8-chloro-6-hydroxyoctanoate	391 g·L ⁻¹ ·d ⁻¹ STY; 98.0%	Ref 34
<i>Ss</i> CR	2-chloro-1-(2,4-dichlorophenyl)ethanol	(<i>R</i>)-2-chloro-1-(2,4-dichlorophenyl)ethanol	268 g·L ⁻¹ d ⁻¹ STY; 99.9% ee	Ref 118
<i>Cp</i> AR2S131Y/Q252I	Ethyl 8-chloro-6-oxooctanoate	(<i>R</i>)-8-chloro-6-hydroxyoctanoic acid	566 g·L ⁻¹ d ⁻¹ STY; >99%	Ref 63
KIAKR-Y295W/W296L	<i>t</i> -butyl 6-cyano-(5 <i>R</i>)-hydroxy-3-oxohexanoate	<i>t</i> -butyl 6-cyano-(3 <i>R</i> , 5 <i>R</i>)-dihydroxyhexanoate	>99.5% de	Ref 65
<i>Km</i> AKRM9	<i>t</i> -butyl 6-cyano-(5 <i>R</i>)-hydroxy-3-oxohexanoate	<i>t</i> -Butyl 6-cyano-(3 <i>R</i> ,5 <i>R</i>)-dihydroxyhexanoate	1.8kg·L ⁻¹ d ⁻¹ STY; >99.5% de	Ref 70
<i>Lf</i> SDR1-V186A/E141I	1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethanol	(<i>R</i>)-1-(3-ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethanol	99.2% ee	Ref 114
<i>Rt</i> SCR9	3-(dimethylamino)-1-(thiophen-2-yl)propan-1-one	(<i>S</i>)-3-(dimethylamino)-1-(2-thienyl)-1-propanol	22.9 mmol·L ⁻¹ h ⁻¹ g ⁻¹ ; 99.9% ee	Ref 128
<i>Ch</i> KRED15	Ethyl 3-oxo-3-(2-thienyl) propanoate	(<i>S</i>)-3-hydroxy-3-(2-thienyl) propanoate	289 g·L ⁻¹ d ⁻¹ STY; >99% ee	Ref 129

<i>CorCPR</i>		Ketopantolactone	D-(-)-Pantolactone	2.1 g·h ⁻¹ g ⁻¹ DCW; >99% ee	Ref 132
Tm1743	W21L/W 118H	Ethyl 2-oxo-4- phenylbutyrate	Ethyl (S)-2-hydroxy-4- phenylbutyrate	99.6% ee	Ref 88
	W21S/W 86E		Ethyl (R)-2-hydroxy-4- phenylbutyrate	99.4% ee	
<i>LcSDR</i>		Acetophenone	(R)-1-phenylethanol	562.8 g L ⁻¹ d ⁻¹ STY; >99% ee	Ref 98