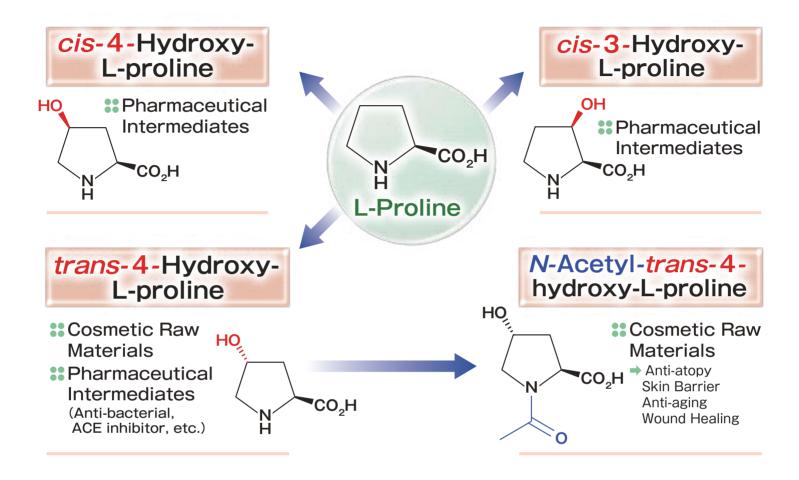
KYOWA's Proline Derivatives



Substrate Specificity of Our Enzymes

Substrate	Product		
	trans P4 Hydroxylase	cis P3 Hydroxylase	cis P4 Hydroxylase
CO ₂ H	HO ₁ , CO ₂ H	OH CO ₂ H	HO CO ₂ H
HN—CO ₂ H	N.D.	OH CO ₂ H	N.D.
CO ₂ H	N H CO₂H	CO ₂ H	N.D.
N CO ₂ H	HO ₁₁₁ , CO ₂ H	OH CO ₂ H	HO N CO ₂ H

N.D.; Not Detected.