

## 2-Steps in 1-pot: enzyme cascades for the synthesis of chiral vicinal amino alcohols

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Schriften des Forschungszentrums Jülich  
Reihe Schlüsseltechnologien / Key Technologies

Band / Volume 95

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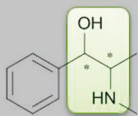
ISSN 1866-1807

ISBN 978-3-95806-001-2

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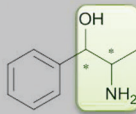
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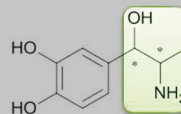
**(pseudo)ephedrine**

$\alpha$ -, $\beta$ -adrenergic receptor effector,  
vasoconstrictor, sympathomimetics,  
bronchodilator agents, nasal decongestants



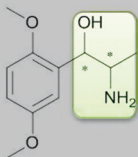
**nor(pseudo)ephedrine**

appetite suppressant,  
sympathomimetics,  
cardiovascular agents



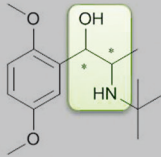
**levonordefrin**

nasal decongestant, vasoconstrictor



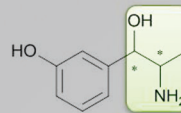
**methoxamine**

$\alpha$ -adrenergic receptor effector,  
vasoconstrictor, nasal decongestant



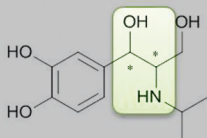
**butaxamine, butoxamine**

$\beta$ -adrenergic effector



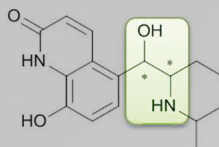
**metaraminol**

$\alpha$ -adrenergic receptor agonist,  
sympathomimetics, vasoconstrictor



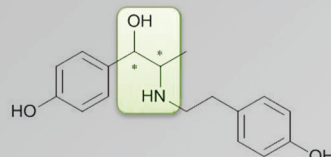
**isotarine**

$\beta$ -adrenergic receptor agonist,  
bronchodilator agent



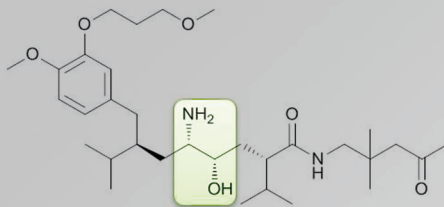
**procaterol**

$\beta$ -adrenergic receptor agonist,  
bronchodilator agent



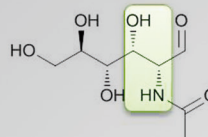
**ritodrine**

$\beta$ -adrenergic receptor agonist,  
sympathomimetics, tocolytic agent



**aliskiren**

renin inhibitor (used for treatment of hypertension)



**N-acetyl-D-glucosamine**

dietary supplement, micronutrient