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제 목	Cloning and expression of human β_2 -adrenergic receptor in <i>Saccharomyces cerevisiae</i>
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내 용	<p>The human β_2-adrenergic receptor ($h\beta_2AR$) contains seven clusters of hydrophobic amino acids suggestive of membrane-spanning domains and its gene is intronless. The genomic gene encoding $h\beta_2AR$ has been isolated by polymerase chain reaction. To express $h\beta_2AR$ in <i>Saccharomyces cerevisiae</i>, a modified $h\beta_2AR$ gene was fused to signal peptide sequence of Killer toxin gene from <i>Kluyveromyces lactics</i>. This fusion gene was expressed under the galactose-inducible <i>GAL10</i> promoter. The ligand binding experiments showed that the functional $h\beta_2AR$ was expressed at a concentration three times as much as that found in Hamster lung.</p>