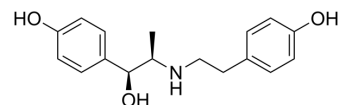


## Ritodrine

<b>Cat. No.:</b>	HY-B0452A
<b>CAS No.:</b>	26652-09-5
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>21</sub> NO <sub>3</sub>
<b>Molecular Weight:</b>	287.35
<b>Target:</b>	Adrenergic Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Ritodrine (DU21220) is a potent and orally active $\beta$ -adrenergic agonist. Ritodrine decreases preterm delivery and uterine contraction. Ritodrine has the potential for the research of preterm labor <sup>[1][2]</sup> .								
<b>IC<sub>50</sub> &amp; Target</b>	$\beta$ adrenergic receptor								
<b>In Vivo</b>	<p>Ritodrine (1, 3, 10 mg/kg; p.o.) decreases preterm delivery in a dose-dependent fashion lipopolysaccharide (HY-D1056) induced preterm delivery in mice<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>9-10 weeks, C3HiHeNCrj female mice<sup>[2]</sup></td> </tr> <tr> <td>Dosage:</td> <td>1, 3, 10 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>P.o.</td> </tr> <tr> <td>Result:</td> <td>Significantly decreased preterm delivery in a dose-dependent fashion lipopolysaccharide-induced preterm delivery in mice.</td> </tr> </table>	Animal Model:	9-10 weeks, C3HiHeNCrj female mice <sup>[2]</sup>	Dosage:	1, 3, 10 mg/kg	Administration:	P.o.	Result:	Significantly decreased preterm delivery in a dose-dependent fashion lipopolysaccharide-induced preterm delivery in mice.
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Dosage:	1, 3, 10 mg/kg								
Administration:	P.o.								
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### CUSTOMER VALIDATION

- Comput Struct Biotechnol J. 2023 Jul 7, 21, 3490-3502.
- J Pharmaceut Biomed. 2020, 113870.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

[1]. Canadian Preterm Labor Investigators Group. Treatment of preterm labor with the beta-adrenergic agonist ritodrine. N Engl J Med. 1992 Jul 30;327(5):308-12.

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[2]. Kaga N, et al. Preventive effect of ritodrine hydrochloride and/or urinary trypsin inhibitor against lipopolysaccharide-induced preterm delivery in mice. Acta Obstet Gynecol Scand. 1997 Oct;76(9):811-6.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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