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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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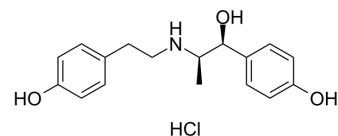
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Ritodrine hydrochloride

Cat. No.:	HY-B0452
CAS No.:	23239-51-2
Molecular Formula:	C ₁₇ H ₂₂ ClNO ₃
Molecular Weight:	323.81
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 120 mg/mL (370.59 mM; Need ultrasonic)				
	H ₂ O : ≥ 100 mg/mL (308.82 mM)				
	* "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	3.0882 mL	15.4412 mL	30.8823 mL
5 mM		0.6176 mL	3.0882 mL	6.1765 mL	
10 mM		0.3088 mL	1.5441 mL	3.0882 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (154.41 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.71 mg/mL (5.28 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.71 mg/mL (5.28 mM); Clear solution				
	4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.71 mg/mL (5.28 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Ritodrine (DU21220) hydrochloride is a β-adrenergic agonist, also an effective smooth muscle and uterine relaxant. Ritodrine hydrochloride prolongs contraction interval, can be used for researching arrest premature labor ^{[1][2][3]} .
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CUSTOMER VALIDATION

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

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REFERENCES

- [1]. Spellacy WN, et al. Treatment of premature labor with ritodrine: a randomized controlled study. Obstet Gynecol. 1979 Aug;54(2):220-3.
- [2]. 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.
- [3]. Li, X., Y. Zhang, and Z. Shi, Ritodrine in the treatment of preterm labour: a meta-analysis. Indian J Med Res, 2005. 121(2): p. 120-7.
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Caution: Product has not been fully validated for medical applications. For research use only.

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