

Ritodrine (hydrochloride)

Catalog No: tcsc2563



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

23239-51-2

Formula:

$C_{17}H_{22}ClNO_3$

Pathway:

GPCR/G Protein

Target:

Adrenergic Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

DU21220

Observed Molecular Weight:

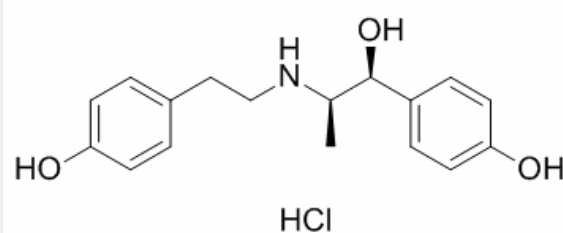
323.81

Product Description

Ritodrine HCl is a β -2 adrenergic receptor agonist.

Target: β -2 Adrenergic Receptor

Ritodrine is a tocolytic drug, used to stop premature labor. Ritodrine can significantly prolong a short interval more quickly but with relatively more side effects than magnesium sulphate. Stratified RCTs for different gestational ages and different labour stages should be designed for further study [1]. Ritodrine is a beta-2 adrenergic receptor agonist - a class of medication used for smooth muscle relaxation. Since ritodrine has a bulky N-substituent, it has high β 2-selectivity. Also, the 4'-hydroxy on the benzene ring is important for activity as it is needed to form hydrogen bonds. However, the 4'-hydroxy makes it susceptible to metabolism by COMT. Since it is β 2-selective it is used for premature labor [2].



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