

KUC-7322

## Chemical Properties

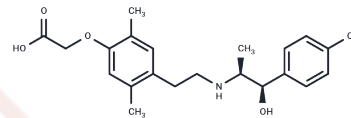
CAS No. : 255734-04-4

Formula: C<sub>21</sub>H<sub>27</sub>N<sub>5</sub>O

Molecular Weight: 373.44

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Ritobegron is used as a selective $\beta$ <sub>3</sub> -adrenoceptor agonist and the prodrug of the active compound, KUC-7322.
Targets(IC50)	Others,Adrenergic Receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6778 mL	13.389 mL	26.7781 mL
5 mM	0.5356 mL	2.6778 mL	5.3556 mL
10 mM	0.2678 mL	1.3389 mL	2.6778 mL
50 mM	0.0536 mL	0.2678 mL	0.5356 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Abe Y, Ota E, Harada H, Kanbe H, Kojima Y, Kanazawa T, Endo T, Murakami M, Kobayashi M. Species differences in the metabolism of ritobegron in vitro and assessment of potential interactions with transporters and cytochrome P450 enzymes. *Pharmazie*. 2015 Jan;70(1):38-46. PubMed PMID: 25975097.

Abe Y, Ota E, Endo T, Murakami M, Kobayashi M. Absorption, disposition, metabolism, and excretion of ritobegron (KUC-7483), a novel selective  $\beta_3$ -adrenoceptor agonist, in rats. *Pharmazie*. 2014 Dec;69(12):881-8. PubMed PMID: 25951660.

Maruyama I, Yonekubo S, Tatemichi S, Maruyama K, Hoyano Y, Yamazaki Y, Kusama H. Effects of ritobegron (KUC-7483), a novel  $\beta_3$ -adrenoceptor agonist, on both rat bladder function following partial bladder outlet obstruction and on rat salivary secretion: a comparison with the effects of tolterodine. *J Smooth Muscle Res*. 2012;48(5-6):115-24. PubMed PMID: 23538508.

Abe Y, Nakano Y, Kanazawa T, Furihata T, Endo T, Kobayashi M. Investigation of Drug-Drug Interactions Between Ritobegron, a Selective  $\beta_3$ -Adrenoceptor Agonist, With Probenecid in Healthy Men. *Clin Pharmacol Drug Dev*. 2016 May;5(3):201-7. doi: 10.1002/cpdd.212. Epub 2015 Sep 29. PubMed PMID: 27163499.

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