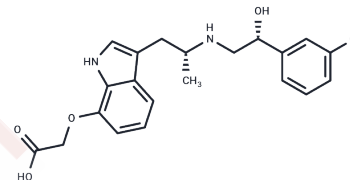


## Rafabegron

## Chemical Properties

CAS No. :	244081-42-3
Formula:	C <sub>21</sub> H <sub>23</sub> ClN <sub>2</sub> O <sub>4</sub>
Molecular Weight:	402.87
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	Rafabegron (TAK677) is a potent and selective $\beta_3$ adrenergic receptor agonist for the study of diabetes and obesity.
Targets(IC50)	Adrenergic Receptor

## Solubility Information

Solubility	DMSO: 45 mg/mL (111.7 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4822 mL	12.411 mL	24.8219 mL
5 mM	0.4964 mL	2.4822 mL	4.9644 mL
10 mM	0.2482 mL	1.2411 mL	2.4822 mL
50 mM	0.0496 mL	0.2482 mL	0.4964 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

Thiagamorthy G, Giarenis I, Cardozo L. Early investigational  $\beta$ 3 adreno-receptor agonists for the management of the overactive bladder syndrome. *Expert Opin Investig Drugs*. 2015;24(10):1299-306. doi: 10.1517/13543784.2015.1076390. Epub 2015 Aug 14. PubMed PMID: 26292923.

Kullmann FA, Downs TR, Artim DE, Limberg BJ, Shah M, Contract D, de Groat WC, Rosenbaum JS. Urothelial beta-3 adrenergic receptors in the rat bladder. *Neurourol Urodyn*. 2011 Jan;30(1):144-50. doi: 10.1002/nau.20965. PubMed PMID: 21046653; PubMed Central PMCID: PMC3395322.

Fujita M, Ueda T, Iwata M. Stabilization by meglumine of an amine compound degraded by formaldehyde in tablets. *Int J Pharm*. 2010 Feb 15;386(1-2):195-200. doi: 10.1016/j.ijpharm.2009.11.017. Epub 2009 Dec 2. PubMed PMID: 19931605.

Kullmann FA, Limberg BJ, Artim DE, Shah M, Downs TR, Contract D, Wos J, Rosenbaum JS, de Groat WC. Effects of beta3-adrenergic receptor activation on rat urinary bladder hyperactivity induced by ovariectomy. *J Pharmacol Exp Ther*. 2009 Sep;330(3):704-17. doi: 10.1124/jpet.109.155010. Epub 2009 Jun 10. PubMed PMID: 19515967; PubMed Central PMCID: PMC2729793.

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