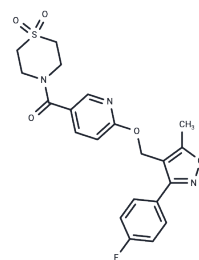


## Basmisanil

## Chemical Properties

CAS No. :	1159600-41-5
Formula:	C <sub>21</sub> H <sub>20</sub> FN <sub>3</sub> O <sub>5</sub>
Molecular Weight:	445.46
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	Basmisanil (RG1662) is a negative allosteric modulator/inverse agonist of GABA <sub>A</sub> α5 receptors. Formulations containing basmisanil are in clinical trials for the treatment of cognitive impairments associated with Down syndrome.
Targets(IC50)	GABA Receptor

## Solubility Information

Solubility	DMSO: 32 mg/mL (71.84 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.49 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2449 mL	11.2244 mL	22.4487 mL
5 mM	0.449 mL	2.2449 mL	4.4897 mL
10 mM	0.2245 mL	1.1224 mL	2.2449 mL
50 mM	0.0449 mL	0.2245 mL	0.449 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

Szepes, Anikó, Pabst-Ravot A , Storch K , et al. Stability and compatibility of Basmisamil granules co-administered with soft food[J]. International Journal of Pharmaceutics, 2018.

Myers J F , Comley R A , Gunn R N . Quantification of [ <sup>11</sup> C]Ro15-4513 GABA A  $\alpha$ 5 specific binding and regional selectivity in humans[J]. Journal of Cerebral Blood Flow & Metabolism, 2016, 37(6):0271678X16661339.

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