

## Firibastat

## Chemical Properties

CAS No. : 648927-86-0

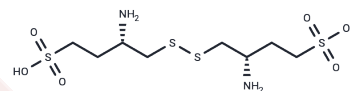
Formula: C<sub>8</sub>H<sub>20</sub>N<sub>2</sub>O<sub>6</sub>S<sub>4</sub>

Molecular Weight: 368.51

Store at low temperature

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	Firibastat (RB150) is a glutamyl aminopeptidase antagonist and an orally active brain penetrating prodrug of EC33. It is a first-in-class brain aminopeptidase A (APA) inhibitor with a $K_i$ of 200 nM. Firibastat selectively and specifically inhibits conversion of brain angiotensin-II into angiotensin-III and decreases blood pressure in hypertensive rats[1] [2].
Targets(IC50)	Aminopeptidase
In vivo	Oral administration of QGC-001(0.1-30 mg/kg; p.o.) crosses the gastrointestinal and blood-brain barriers, enters the brain, and generates two active molecules of EC33 which inhibit brain APA activity, blocking brain angiotensin III formation, and decrease blood pressure for several hours in hypertensive rats[2].

## Solubility Information

Solubility	H <sub>2</sub> O: 30 mg/mL (81.41 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	2.7136 mL	13.5682 mL	27.1363 mL
5 mM	0.5427 mL	2.7136 mL	5.4273 mL
10 mM	0.2714 mL	1.3568 mL	2.7136 mL
50 mM	0.0543 mL	0.2714 mL	0.5427 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

Ferdinand KC, et al. Efficacy and Safety of Firibastat, A First-in-Class Brain Aminopeptidase A Inhibitor, in Hypertensive Overweight Patients of Multiple Ethnic Origins. *Circulation*. 2019;140(2):138-146.

Keck M, et al. Orally Active Aminopeptidase A Inhibitor Prodrugs: Current State and Future Directions. *Curr Hypertens Rep*. 2019;21(7):50. Published 2019 May 21.

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