

**Product Name:** RuBi GABA trimethylphosphine

**Catalog No.:** 4709

**Batch No.:** 6

**IUPAC Name:** (bis(2,2'-Bipyridine-*N,N'*)trimethylphosphine)-4-aminobutyric acid ruthenium complex sodium hexafluorophosphate salt

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>27</sub>H<sub>33</sub>N<sub>5</sub>O<sub>2</sub>PRu.PF<sub>6</sub>.NaPF<sub>6</sub>

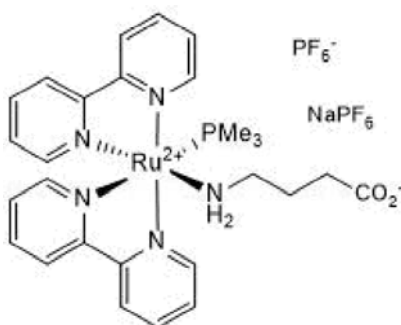
**Batch Molecular Weight:** 904.56

**Physical Appearance:** Orange solid

**Solubility:** water to 50 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**<sup>1</sup>H NMR:** Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

RuBi GABA trimethylphosphine is a modified version of RuBi-GABA (Cat. No. 3400). Suppresses cortical local field potential (LFP) activity in anesthetized mice after activation with a blue laser pulse (473 nm); inhibits neural activity.

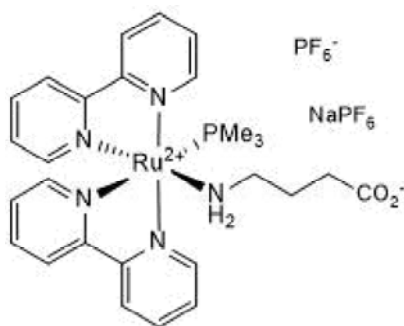
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>27</sub>H<sub>33</sub>N<sub>5</sub>O<sub>2</sub>PRu.PF<sub>6</sub>.NaPF<sub>6</sub>

Batch Molecular Weight: 904.56

Physical Appearance: Orange solid

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

water to 50 mM

**CAUTION:** RuBi-GABA is light sensitive and all experiments should be conducted with minimal light.

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**Licensing Information:**

Sold under licence from Columbia University

**References:**

**Filevich et al** (2013) RuBiGABA-2: a hydrophilic caged GABA with long wavelength sensitivity. *Photochem.Photobiol.Sci.* **12** 1565. PMID: 23674097.

**Lopes-dos-Santos et al** (2011) *In vivo* photorelease of GABA in the mouse cortex. *Braz.J.Med.Biol.Res.* **44** 688. PMID: 21755263.

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