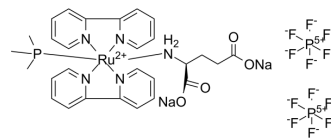


## RuBi-Glutamate hexafluorophosphate sodium

Cat. No.:	HY-131885
CAS No.:	2417096-44-5
Molecular Formula:	$C_{28}H_{32}F_{12}N_5Na_2O_4P_3Ru$
Molecular Weight:	970.54
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

RuBi-Glutamate hexafluorophosphate sodium is a novel cage glutamate compound based on ruthenium photochemistry. RuBi-Glutamate hexafluorophosphate sodium can be excited at visible wavelengths and release glutamate after single or two-photon excitation. It has high quantum efficiency and can be used at low concentrations, partially avoiding the blocking of GABA energy transmission by other cage compounds. Two-photon release of RuBi-Glutamate hexafluorophosphate sodium has high spatial resolution and produces a physiodynamic excitatory response in a single dendritic spine<sup>[1]</sup>.

### REFERENCES

[1]. Fino E, et al. RuBi-Glutamate: Two-Photon and Visible-Light Photoactivation of Neurons and Dendritic spines. *Front Neural Circuits*. 2009 May 27;3:2.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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