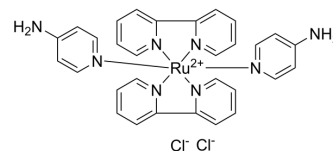


## RuBi-4AP

Cat. No.:	HY-108578
CAS No.:	851956-02-0
Molecular Formula:	C <sub>30</sub> H <sub>28</sub> Cl <sub>2</sub> N <sub>8</sub> Ru
Molecular Weight:	672.57
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

RuBi-4AP, a derivative of 4-aminopyridine (4AP; HY-B0604), is a caged K<sub>v</sub> channel blocker. RuBi-4AP contains a photolabile protecting group, allowing its effect to be controlled precisely in both space and time with light. RuBi-4AP can be used for the research of neuronal excitability, synaptic transmission, and signal propagation<sup>[1][2]</sup>.

### REFERENCES

- [1]. Zayat L, et al. A new strategy for neurochemical photodelivery: metal-ligand heterolytic cleavage. *J Am Chem Soc.* 2003 Jan 29;125(4):882-3.
- [2]. Rowan MJ, et al. Distinct K<sub>v</sub> channel subtypes contribute to differences in spike signaling properties in the axon initial segment and presynaptic boutons of cerebellar interneurons. *J Neurosci.* 2014 May 7;34(19):6611-23.

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

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