1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{33}\text{H}_{37}\text{F}_{12}\text{N}_{6}\text{OP}_{3}\text{Ru} \)

Batch Molecular Weight: 955.66

Physical Appearance: Orange solid

Solubility: Please refer to Solubility & Usage Information on Product Information sheet.

Storage: Store at -20°C

2. ANALYTICAL DATA

\(^1\text{H NMR:} \) Consistent with structure
Product Name: RuBi-5-HT
Catalog No.: 3856 Batch No.: 1

IUPAC Name: \((\text{bis}(2,2\text{-Bipyridine-}N,N')\text{trimethylphosphine})\text{-5-hydroxytryptamine ruthenium}\,(2^+\text{)}\) dihexafluorophosphate complex

Description:
RuBi-caged version of serotonin (Cat. No. 3547). Excited by visible wavelengths (450 nm). Has no effect on firing of pyramidal neurons in mice; uncaging with blue light alters firing rate of COM and CPn neurons, which is blocked by MDL 100907 (Cat. No. 4173).

Physical and Chemical Properties:
Batch Molecular Formula: C_{33}H_{37}F_{12}N_{6}O_{3}P_{3}Ru
Batch Molecular Weight: 955.66
Physical Appearance: Orange solid

Solubility & Usage Info:
RuBi-5-HT is soluble in water, but its PF_{6} salts are slow to solubilise. Please refer to the detailed solubility guidelines available on-line.
CAUTION: RuBi-5-HT is light sensitive and all experiments should be conducted with minimal light.
The material contains up to 15% trans complex. cis and trans complexes have similar photoactivity.

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References: