

---

## Product Data Sheet

---

Product Name: RuBi-5-HT

Cat. No.: GC50046

### Chemical Properties

Cas. No.

SMILES [Ru++].CP(C)C.F[P-](F)(F)(F)(F)F.F[P-](F)(F)(F)(F)F.C1=CN=C(C=C1)C1=CC=CC=N1.C1=CC=C(N=C1)C1=CC=CC=N1.NCCC1=CNC2=C1C=C(O)C=C2

Formula C<sub>33</sub>H<sub>37</sub>F<sub>12</sub>N<sub>6</sub>OP<sub>3</sub>Ru M.Wt 955.66

Solubility Soluble in DMSO Storage Store at -20°C

General For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon Condition request.

Structure 

### Background

RuBi-caged version of serotonin . 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 .

Zayat et al (2006) Ruthenium(II) bipyridyl complexes as photolabile caging groups for amines. Inorg. Chem. 45 1728 PMID:16471986 |Cabrera et al (2017) A visible-light-sensitive caged serotonin. ACS Chem.Neurosci. 8 1036 PMID:28460173

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA