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RuBPS

RuBPS (Ruthenium(tris(bathophenanthrolinedisulfonate), tetrasodium salt) is a negatively-charged water-soluble luminescent ruthenium complex. The complex can be efficiently excited by either UV light or visible light in the wavelength range from 400 nm to 500 nm with bright red emission centered around 605 nm.

Product attributes

CAS number	301206-84-8
Probe cellular localization	Fluid phase tracer
Cell permeability	Membrane impermeant
Colors	Red
Excitation/Emission	462 (broad)/603 nm

Product Description

RuBPS (Ruthenium(tris(bathophenanthrolinedisulfonate), tetrasodium salt) is a negatively-charged water-soluble luminescent ruthenium complex. The complex can be efficiently excited by either UV light or visible light in the wavelength range from 400 nm to 500 nm with bright red emission centered around 605 nm. Ruthenium complexes such as RuBPS typically have luminescence lifetimes in the micro second range and a Stokes shift over 100 nm. By using time-resolved luminescence measurement, the combination of long luminescent lifetime and large Stokes shift offers the possibility for extremely sensitive detection that could approach the sensitivity of radioactive detection. Among many potential applications, RuBPS could be used as a polar tracer similar to Lucifer Yellow and FluoroGold.

- $\lambda_{Ex}/\lambda_{Em}(H_2O)$ = 462 nm (broad)/603 nm
- Yellow solid soluble in water
- Store at 4°C and protect from light
- $C_{72}H_{42}N_6Na_4O_{18}RuS_6$
- MW: 1664.55
- [301206-84-8]