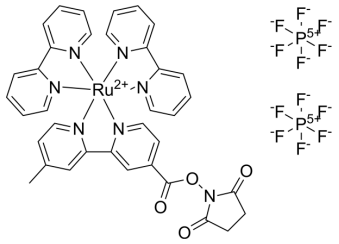
Ru(bpy)2(mcbpy-O-Su-ester)(PF6)2

Cat. No.:	HY-W127716
CAS No.:	136724-73-7
Molecular Formula:	$C_{36}H_{29}F_{12}N_7O_4P_2Ru$
Molecular Weight:	1014.66
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	Ru(bpy)2(mcbpy-O-Su-ester)(PF6)2 is a potent ruthenium-based dye. Ru(bpy)2(mcbpy-O-Su-ester)(PF6)2 can bu used as an effective quencher of quantum dots (QDs) fluorescence and the capture probe of virus antigen EV71. Ru(bpy)2(mcbpy-O-Su-ester)(PF6)2 can be used sensitive electrogenerated chemiluminescence (ECL) labels for detection of matrix metalloproteinases (MMPs)[1][2][3].
In Vitro	Ru(bpy)2(mcbpy-O-Su-ester)(PF6)2 can be used as a label to measure the hydrodynamic radii of intravitreal anti-VEGF drugs [2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Arch Oral Biol. 2023 Mar 29;150:105692.

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REFERENCES

[1]. Chen L, et al. Dual-color fluorescence and homogeneous immunoassay for the determination of human enterovirus 71. Anal Chem. 2011 Oct 1;83(19):7316-22.

[2]. Hirvonen LM, et al. Hydrodynamic Radii of Ranibizumab, Aflibercept and Bevacizumab Measured by Time-Resolved Phosphorescence Anisotropy. Pharm Res. 2016 Aug;33(8):2025-32.

[3]. HongfangGao, et al. Highly selective electrogenerated chemiluminescence biosensor for simultaneous detection of matrix metalloproteinase-2 and matrix metalloproteinase-7 in cell secretions. Sensors and Actuators B: Chemical, December 2017, 69-76.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA