

CERTIFICATE OF ANALYSIS

Product No.
F3R020X
Lot No.
LDC03A

RUB-C3-CHO

Bis(2,2'-bipyridine)-[4-(4'-methyl-2,2'-bipyridin-4-yl)butanal] ruthenium bis(perchlorate)

Comments: Aldehyde functionalized Ru(bpy)₃ derivative bearing a short (C3) spacer arm. Useful label for fluorescence and electrochemiluminescence detection. Reacts with primary and secondary amine-containing molecules to form Schiff bases. Reacts towards hydrazine and especially hydrazide derivatives to create a hydrazone linkage, relatively more stable than the easily reversible Schiff base bond. In both cases reductive amination with sodium cyanoborohydride reduces the double bond to form a stable covalent linkage.

CAS No: /
Mol. Formula: C₃₅H₃₂Cl₂N₆O₉Ru
Mol. Weight: 852.64 g/mol
λ_{abs} (nm): 452 (H₂O)
λ_{em} (nm): 628 (H₂O)
ε (M⁻¹cm⁻¹): 14600
Assay: Min. 98%
Storage: RT
Expiry Date: No Expiry

TEST	SPECIFICATIONS	LOT RESULT
Appearance (Colour/Form):	Orange solid	Orange solid
¹ H-NMR:	Conforms to structure, Min 98%	Conforms to structure, > 98%
Document Release Date:	16/02/2016	
Document Revision:	01	

Approved:


Quality Control Technician

Reviewed:


Production Manager

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