fac-[Re(CO)₃(dmso-O)₃](CF₃SO₃): a new versatile and efficient Re(I) precursor for the preparation of mono and polynuclear compounds containing fac-[Re(CO)₃]⁺ fragments.

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Supplementary Information
**Figure 1S.** Details of the crystal packing in $\text{fac-}[\text{Re(CO)}_3(\text{bipy})(4,4'-\text{bipy})](\text{CF}_3\text{SO}_3)$ (7), showing the intramolecular stacking of the 4,4'-bipy ligands.
Figure 2S. Comparison of the $^1$H-NMR spectra (CD$_2$Cl$_2$) of fac-[Re(CO)$_3$(bipy)(4,4'-bipy)](CF$_3$SO$_3$) (7) (top) and [fac-{Re(CO)$_3$(bipy)}(μ-4,4'-bipy){Ru(CO)(TPP)}](CF$_3$SO$_3$) (8) (bottom). See Figure 5 for the labeling scheme.
Figure 3S. $^1$H-NMR spectra (CD$_2$Cl$_2$) of: A. Raw mixture of 11, 12, and unreacted 4'MPyP, as obtained from the reaction between 1 and an excess of 4'MPyP before column chromatography; B. First band from the first column, containing a mixture of 11 and 13; C. First band from the second column, containing pure $\text{fac-[ReCl(CO)₃(4'MPyP)₂]}$ (13); D. Second band from the second column, containing almost pure 11. See Figure 8 (repeated below) for labelling scheme.