

**Supplementary material (ESI) for Dalton Transactions**  
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**Table S1** Variation of  $^1\text{H}$  NMR chemical shift of the  $\text{CH}_3\text{S}$  group with molar ratio of dinuclear Pd(II) complex to peptide in  $\text{D}_2\text{O}$  at  $\text{pH}^* \sim 1.0$  and room temperature

mol ratio promoter : substrate	$\delta$ ( $\text{CH}_3\text{S}$ , in ppm)			
	AcMet-Gly	AcMet-Ala	AcMet-Ala-Ser	AcMet-Pro
0 : 1	2.104	2.105	2.105	2.122
0.05 : 1	2.115	2.113	2.115	2.131
0.1 : 1	2.126	2.121	2.125	2.139
0.2 : 1	2.140	2.138	2.147	2.156
0.5 : 1	2.207	2.185	2.209	2.203
1 : 1	2.293	2.253	2.302	2.271