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An Artificial Metalloenzyme for Olefin Metathesis

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A Grubbs-Hoveyda type olefin metathesis catalyst, equipped with an electrophilic bromoacetamide group, was used to modify a cysteine-containing variant of a small heat shock protein from *Methanocaldococcus jannaschii*. The resulting artificial metalloenzyme was found to be active under acidic conditions in a benchmark ring closing metathesis reaction.

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