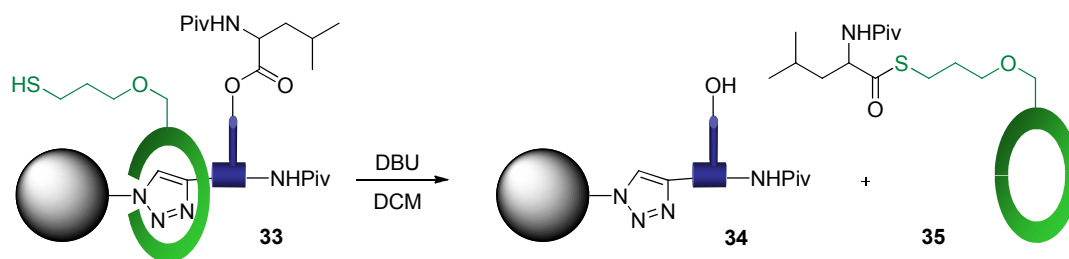


**Scheme** A cartoon depiction of a rotaxane-based molecular machine capable of sequence specific peptide synthesis.



**Scheme 3.** Operation of a test model peptide synthesizer with a single amino acid residue.