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(54) Title: ENGINEERED PURINE NUCLEOSIDE PHOSPHORYLASE VARIANT ENZYMES

(57) Abstract: The present invention provides engineered purine nucleoside phosphorylase (PNP) enzymes, polypeptides having PNP activity, and polynucleotides encoding these enzymes, as well as vectors and host cells comprising these polynucleotides and polypeptides. Methods for producing PNP enzymes are also provided. The present invention further provides compositions comprising the PNP enzymes and methods of using the engineered PNP enzymes. The present invention finds particular use in the production of pharmaceutical compounds.

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