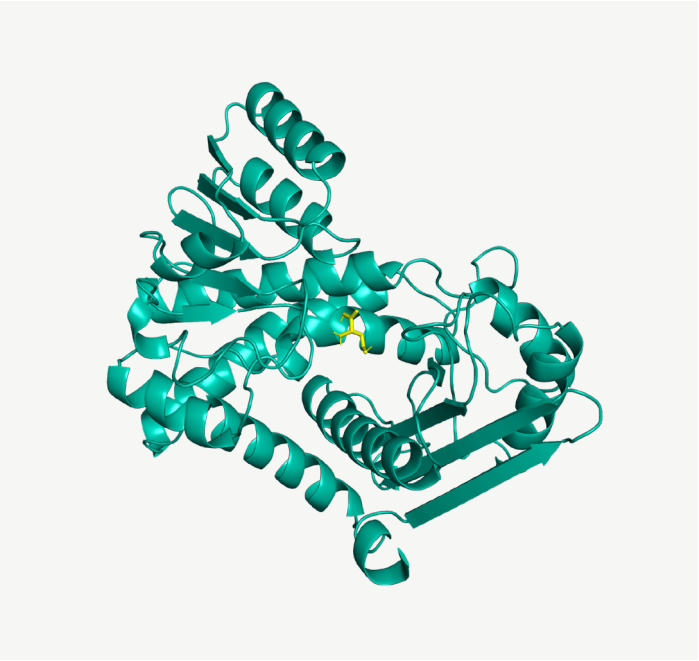
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Amino Acid Dehydrogenases

(AADHs)

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Product Overview

Amino acid dehydrogenases (AADHs) catalyze the reversible reductive amination of keto acids to produce natural and non-natural amino acids, using ammonia as the amine donor and NADH or NADPH as the reducing cofactor. This reaction enables the direct synthesis of chiral amino acids from corresponding keto acid precursors under mild, aqueous conditions, providing a biocatalytic alternative to multi-step chemical synthesis routes.

Powered by our proprietary **ZymeLeap™ platform**, our engineered AADH variants are developed for broader substrate scope, catalytic efficiency, and optimized cofactor utilization across a range of keto acid substrates. These enzymes support the synthesis of natural and non-natural amino acids, with applications in pharmaceutical intermediates, nutraceuticals, and fine chemicals. Their integration into biocatalytic processes enables reductive amination with high stereoselectivity and atom economy, supporting process development and manufacturing applications.

Product Specifications

Product Name	Amino Acid Dehydrogenases
Applications	Biocatalysis, Biomanufacturing
Form	Freeze-dried powder
Storage	-20°C

Explore our Enzyme Portfolio

Discover our range of specialised enzymes for research and industrial applications.
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