

Transaminases

(ATAs)

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Product Overview

Transaminases (ATAs) are pyridoxal-5'-phosphate (PLP)-dependent enzymes that catalyze the reversible transfer of amino groups between an amino donor and a carbonyl acceptor, enabling the conversion of ketones into chiral amines and vice versa. This reaction supports the synthesis of enantiopure amines under mild, aqueous conditions, providing a biocatalytic alternative to conventional chemical reductive amination.

Powered by our proprietary **ZymeLeap™ platform**, our engineered ATA variants are developed for catalytic activity, broader substrate tolerance, and improved acceptance of bulky ketones across a wide substrate spectrum, from simple aliphatic ketones to complex aromatic systems. They enable chiral amine synthesis with high stereoselectivity, atom economy, and scalability, providing a biocatalytic route that outperforms conventional chemical synthesis in both efficiency and sustainability. These capabilities support the production of pharmaceutical intermediates and fine chemicals.

Product Specifications

Product Name	Transaminases
Applications	Biocatalysis, Biomanufacturing
Form	Freeze-dried powder
Storage	-20°C

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