

Transaminases (ATAs)

Transaminases (ATAs) catalyze the reversible transfer of amino groups between an amino donor and a carbonyl acceptor, converting ketones into chiral amines and vice versa. These pyridoxal-5'-phosphate (PLP)-dependent enzymes enable the synthesis of enantiopure amines under mild, environmentally compatible conditions – offering a biocatalytic alternative to traditional chemical reductive amination.

By integrating ATAs into bioprocesses, chiral amine formation can be achieved with high stereoselectivity, atom economy, and scalability, supporting sustainable production of pharmaceutical intermediates and fine chemicals.

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Product Overview

At Allozymes, we advance transaminase engineering to deliver enzymes with broader substrate tolerance, enhanced activity, and improved acceptance of bulky ketones. Our ATA panels are designed to perform reliably across a wide substrate spectrum – from simple aliphatic ketones to complex aromatic systems – under mild, aqueous conditions.

Leveraging our proprietary microfluidics and data-driven enzyme discovery platform, we identify and evolve ATAs with superior performance for industrial needs. The result is a robust, scalable, and greener biocatalytic route to chiral amines that outperforms conventional chemical synthesis in both efficiency and sustainability.

Product Specifications

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

Allozymes also offers a range of specialized enzymes for research and industrial applications. Get in touch with us to explore the right enzyme solution for your project.