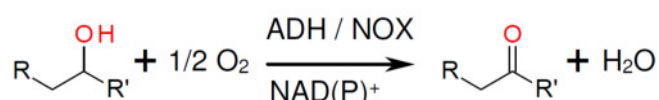


Robust industrial alcohol oxidation and cofactor regeneration using optimized ADH and NOX

Biooxidation of alcohols to carbonyls

CHEMOselective | REGIOselective | ENANTIOselective



Robust and universal NOX for cofactor recycling

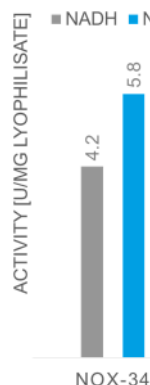
NOX-34 is a water-forming NAD(P)H oxidase, developed for high performance and stability under process conditions.

The enzyme is **universally applicable** for cofactor recycling in oxidative reactions.

It uses O₂ to oxidize NADH or NADPH just forming water.

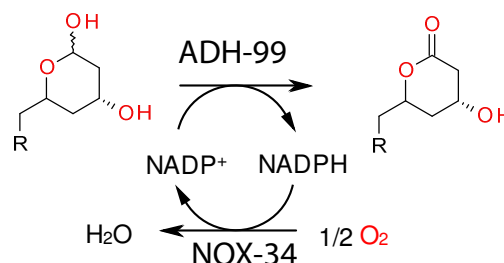
Relaxed cofactor selectivity

■ NADH ■ NADPH



ADH for selective oxidative reactions

c-LEcta developed a platform based on ADH-99 for efficient alcohol oxidation reactions. The enzyme was optimized for high process stability and performance in presence of high substrate concentrations. It shows high activity under slightly acidic to basic pH.



c-LEcta is a leading industrial biotechnology company, using best-in-class technologies to efficiently provide customized enzymes and microbial strains for industrial applications in regulated markets like pharma and food. Scientific excellence is combined with in-depth commercial and regulatory know-how to bring innovative and competitive bioprocessed products into scale. Besides its in-house project and product pipeline, c-LEcta has a strong focus on strategic cooperation with industrial partners. Moreover, c-LEcta is an established enzyme supplier, manufacturing unique, quality-controlled enzyme products in large industrial scale.

BIODIVERSITY

ENZYME ENGINEERING

STRAIN ENGINEERING

BIOPROCESS DEVELOPMENT

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