Monoamine oxidase (MAO)

Cat. No. MAO-23 **Lot. No.** (See product label)

SPECIFICATION

Description	MAO(Monoamine oxidase): MAO catalyze the oxidative deamination of monoamines to produce hydrogen peroxide, ammonia and corresponding aldehydes. In the catalytic process, oxygen is necessary as oxidant.
Applications	1. Normally, the reaction system should include substrate, buffer solution, enzyme, coenzyme, and coenzyme regeneration system. 2. All kinds of MAO corresponding to various optimum reaction conditions should be studied individually. 3. High concentration Substrate or product with may inhibit MAO's activity. However, the inhibition can be relieved by batch addition of substrate.
Notes	Never contact with extreme conditions such as: high temperature, high/low pH and high concentration organic solvent.
Storage	Keep 2 years below -20 centigrade.
Advantages	1. High substrate specificity. 2. Strong chiral selectivity. 3. High conversion. 4. Less by-products. 5. Mild reaction conditions.. 6. Environmentally friendly.

GENE INFORMATION

Official Symbol	MAO
Synonyms	Monoamine oxidase; MAO

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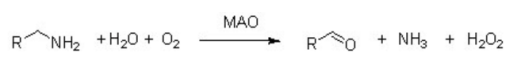
Catalytic reaction type	
Application Examples	 Biosynthesis of (1R,5S)-6,6-dimethyl-3-aza-bicyclo[3.1.0]hex-2-ene

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