

# Unspecific Peroxygenases

(UPOs)

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## Product Overview

Unspecific peroxygenases (UPOs) are oxidative enzymes that catalyze the selective hydroxylation of C–H bonds using hydrogen peroxide as the sole oxidant. Acting as self-sufficient monooxygenases, they combine the catalytic range of cytochrome P450s with the operational simplicity of peroxidases, eliminating the need for auxiliary cofactors or electron-transfer partners.

Powered by our proprietary **ZymeLeap™ platform**, our engineered UPO variants are developed for catalytic activity, stability, and substrate range, enabling precise C–H bond activation across diverse chemical scaffolds. Operating under mild, aqueous conditions, they deliver high conversion, enantioselectivity, and scalable oxidation reactions while reducing waste and reliance on complex metal-catalyzed systems. These capabilities support regio- and stereoselective transformations for late-stage functionalization, fine-chemical synthesis, pharmaceutical intermediate production, and specialty biomanufacturing.

## Product Specifications

|                     |                                |
|---------------------|--------------------------------|
| <b>Product Name</b> | Unspecific Peroxygenases       |
| <b>Applications</b> | Biocatalysis, Biomanufacturing |
| <b>Form</b>         | Freeze-dried powder            |
| <b>Storage</b>      | -20°C                          |

## Explore our Enzyme Portfolio

Discover our range of specialised enzymes for research and industrial applications. Get in touch today to find the right solution for your project.

[hello@allozymes.com](mailto:hello@allozymes.com)