

Lighting up peptides: direct dehydroalanine formation from diselenides *via* Rose Bengal photocatalysis

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Streszczenie

A visible-light-driven method for the site-selective conversion of diselenide-containing peptides to dehydroalanine (Dha) is presented. Using Rose Bengal as a photosensitizer in aqueous conditions, this photocatalytic process proceeds *via* oxidative cleavage of the Se–Se bond followed by β -elimination to afford Dha with high yield and chemoselectivity. This mild and bioorthogonal strategy enables downstream peptide functionalization and offers a practical route for post-synthetic peptide editing.

Adres publiczny

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Strona internetowa wydawcy

<https://www.rsc.org/>