

Recombinant *p*-Hydroxyphenylpyruvate Dioxygenase of High Activity

Barbara Lederer and Peter Böger*

Lehrstuhl für Physiologie und Biochemie der Pflanzen, Universität Konstanz,
D-78457 Konstanz, Germany. Fax: +49-(0)7531-883042. E-mail: peter.boeger@uni-konstanz.de

* Author for correspondence and reprint requests

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Inhibitors of *p*-hydroxyphenylpyruvate dioxygenase (HPPD) are bleaching compounds impairing the formation of colored carotenoids. This activity makes them promising candidates for herbicides. Detailed studies on enzyme-inhibitor complexes or on the binding niche of the enzyme have still to be performed. Enzyme preparation from plants is time-consuming and the yield is poor. This paper describes in relevant detail the preparation of recombinant enzyme from *Arabidopsis thaliana* with good yield and high specific activity.

Key words: Recombinant *p*-Hydroxyphenylpyruvate Dioxygenase, HPPD, Triketones