

3,4-dihydroxyphenylalanine oxidative deaminase

Cat. No. EXWM-0607 Lot. No. (See product label)

Introduction	
Description	This enzyme is one of the three enzymes involved in L-dopa (3,4-dihydroxy-L- phenylalanine) catabolism in the non-oxygenic phototrophic bacterium Rubrivivax benzoatilyticus OU5 (and not Rhodobacter sphaeroides OU5 as had been thought), the other two being EC 4.3.1.22 (dihydroxyphenylalanine reductive deaminase) and EC 2.6.1.49 (3,4-dihydroxyphenylalanine transaminase). In addition to L-dopa, the enzyme can also use L-tyrosine, L-phenylalanine, L-tryptophan and glutamate as substrate, but more slowly. The enzyme is inhibited by NADH and 2-oxoglutarate.
Synonyms	3,4-dihydroxy-L-phenylalanine: oxidative deaminase; oxidative deaminase; DOPA oxidative deaminase; DOPAODA
Product Information	
Form	Liquid or lyophilized powder
EC Number	EC 1.13.12.15
Reaction	2 L-dopa + O2 = 2 3,4-dihydroxyphenylpyruvate + 2 NH3
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
Storage and Shipping Information	

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.