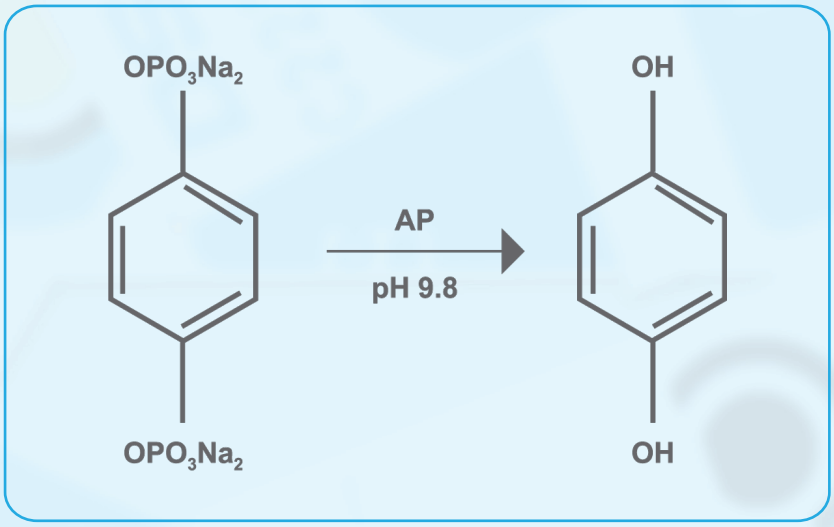
Enzymatic reaction of HQDP



DropSens launches **Hydroquinone diphosphate** (ref. HQDP).

Hydroquinone diphosphate is intended for its use as **electrochemical substrate of Alkaline Phosphatase** (AP). This reagent generates **electrochemically active hydroquinone** as the product after its hydrolysis. Voltammetric and amperometric measurements can be easily carried out for the quantification of **hydroquinone** in affinity assays using the *HQDP*/AP detection system.

The use of HQDP, instead of other AP substrates, results in **lower LODs**, **wider linear ranges** and a simpler methodology for the detection of the enzymatic product. Moreover the applied **potential for oxidation of Hydroquinone is lower** than the potential for oxidation of other AP substrates hydrolysis products, which reduces the number of potential interferences able to be oxidised at the electrode surface.

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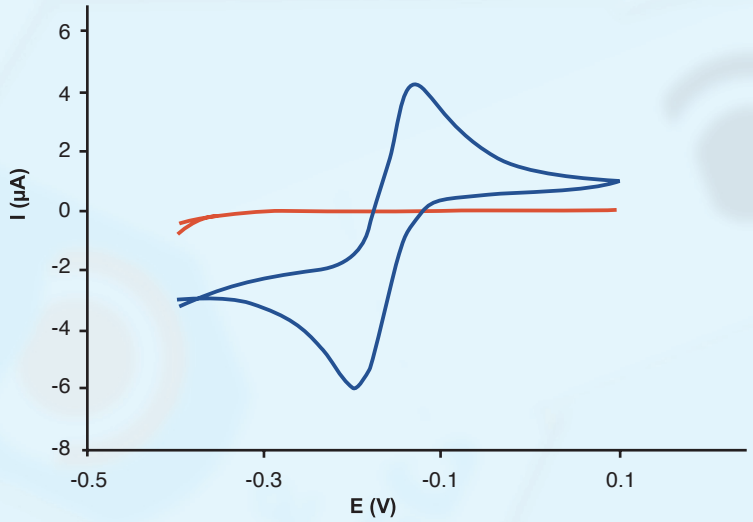
Hydroquinone Diphosphate

Ref. HQDP

Electrochemical behaviour of *Hydroquinone diphosphate* in absence and presence of alkaline phosphatase using DRP-110 screen-printed carbon electrodes

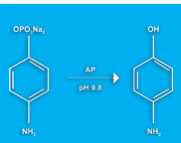
Cyclic voltammetry of the hydrolysis product at the surface of screen-printed carbon electrodes shows a **well-defined oxidation and reduction peaks** at -0.15 V (vs. Ag-pseudoreference electrode).



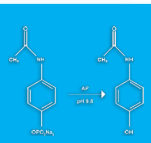
Cyclic voltammogram of 3 mM HQDP (—) and 3 mM HQDP + Alkaline phosphatase (—) in 0.1 M Tris-HNO_3, 20 mM $Mg(NO_3)_2$, pH 9.8 electrolyte solution at 50 mV/s.

HQDP should be stored at 4 ºC, under a N_2 atmosphere and kept away from light.

Related products



PAPP



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