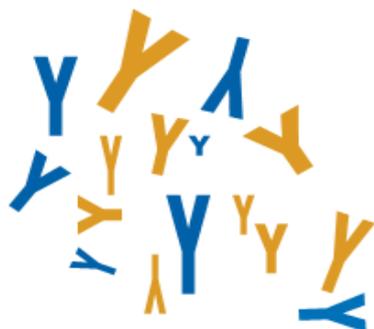


## E2 antigen



### PRODUCT SPECIFICATION

Cat # 5006200

|                 |   |
|-----------------|---|
| Batch*:         | <i>[Batch dependent]</i>  |
| Size            | 1 mg/ vial  |
| Format:         | Powder  |
| Reconstitution: | Acetone (avoid using EtOH or MeOH)                                  |
| Storage:        | -20°C before reconstitution<br>-20°C after reconstitution (6 month) |

#### Directions for use:

Estradiol is typically measured in a competitive assay format. In this format, estradiol from the sample competes with an estradiol conjugate labelled with e.g. HRP, biotin, or any other labelling function.

It is critical to use an estradiol conjugate that pairs with the corresponding antibody. The position and structure of the conjugate must match the immunogen that has been used to develop the antibody.

The 6-hemisuccinate group (6-HS) contains a carboxylic acid (COOH) functionality that can be used for further conjugation to the appropriate label. Directions for conjugation are provided below.

For conjugation to e.g. HRP, prepare a solution of N-Hydroxysuccinimide (12.5mg/mL) and Dicyclohexylcarbodiimide (20mg/mL) in DMF. In a glass vial, add 200µL of this solution to 10mg of E2 6-HS. Close the vial and gently mix the solution for 20h at 4°C, using a magnetic bar. Centrifuge for 15' at 3000 RPM keep the supernatant and transfer it to a brown glass vial. Prepare a solution of HRP (5mg/mL) in carbonate buffer (100mM, pH 9.5). For 10mg of E2 6-HS add 4mL of the HRP solution to the brown glass vial, close it and gently mix the solution for 6h at rt. Dialyse against PBS (100mM, pH 7.4), at 4°C. Purify via hydrophobic interaction chromatography (HIC) on Octyl-Sepharose CL-4B®.

This protocol can be adapted for conjugation to other labels.

Expiry date: *[Batch dependent]*

\* Only the figures before the last slash should be taken into account for the batch identification.

Date

Signature