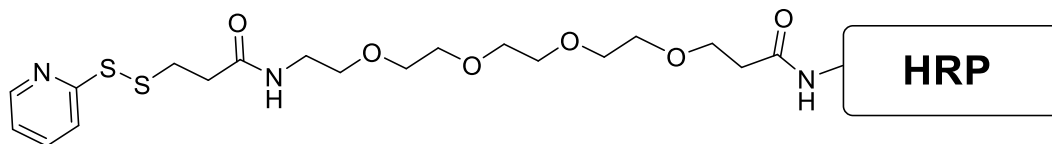


## Thiol Activated Horseradish Peroxidase (HRP)

Lyophilized powder, > 200 units / mg protein

Product Number: **CM53101**

### Product Description



CellMosaic's thiol activated Horseradish Peroxidase (HRP) is designed for direct conjugation of HRP with proteins, peptides, or other ligands containing maleimide, haloacetyl, and thiol groups for use as an enzyme-linked detection reagent. This product consists of HRP that has been modified with 1-3 pyridyl disulfide group per HRP molecule with a long PEG spacer. The pyridyl disulfide of the HRP needs to be reduced to produce the free thiol groups prior reacting with maleimide and haloacetyl derivatives. But it can use to react directly with -SH groups of the proteins, peptides, or other ligands to form reversible disulfide linkages. Upon conjugation, the activated HRP will covalently attach to sulfhydryl-containing compounds to generate primarily single labeled HRP-conjugate reporter probes.

### Application

- Conjugation of HRP to antibodies & other proteins for Western Blotting & ELISA.
- Conjugation of HRP to oligonucleotides for in-situ hybridization.

### Key Features of thiol activated HRP

- Lyophilized powder and ready to be reduced by DTT or TCEP after reconstitution with water, no buffer is needed.
- Suitable for single label, average number of maleimide groups per HRP: 1 to 3.
- High purity:  $\geq 99\%$ .
- Activity: >200 units/mg protein [**Unit Definition**. One **unit** is amount of enzyme that will form 1.0 mg purpurogallin from pyrogallol in 20 sec. at pH 6.0 at 20 °C].