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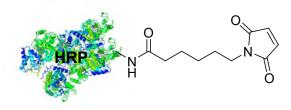
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Maleimide-Activated Horseradish Peroxidase (HRP)

Lyophilized powder, > 350 units/mg protein

MW: 42,800 Da

Product Number: CM53214



Product Description

CellMosaic's C6 maleimide-activated horseradish peroxidase (HRP) is designed for direct conjugation of HRP with proteins, peptides, or other ligands containing free sulfhydryl groups (–SH) for use as an enzyme-linked detection reagent. This product consists of HRP that has been modified with EMCS (N- ϵ -maleimidocarproyl oxysuccinimide ester, 9.4 Å spacer length) to attach 1 to 2 maleimide groups per HRP molecule while retaining the peroxidase activity. 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 and other proteins for Western blotting or ELISA.
- Conjugation of HRP to oligonucleotides for in situ hybridization.

Key Features of Maleimide-activated HRP

- Lyophilized powder ready for conjugation after reconstitution with water, no need for external buffer.
- Suitable for single labeling with an average number of maleimide groups per HRP of 1 to 2.
- High purity: ≥ 99%.
- Activity: >350 units/mg protein (One **unit** is the amount of enzyme that will form 1.0 mg purpurogallin from pyrogallol in 20 s at pH 6.0 at 20°C).

References

- a) Hashida, S., et al. (1984). More useful maleimide compounds for the conjugation of Fab' to horseradish peroxidase through thiol groups in the hinge. J. Appl. Biochem. 6, 56-63.
- b) Imagawa, M., et al. (1982). Characteristics and evaluation of antibody-horseradish peroxidase conjugates prepared by using a maleimide compound, glutaraldehyde, and periodate. J. Appl. Biochem. 4, 41-57.
- c) O'Sullivan, M.J., et al. (1979). Comparison of two methods of preparing enzyme-antibody conjugates: application of these conjugates for enzyme immunoassay. *Anal. Biochem.* 100, 100-108.