

Glutathione Peroxidase from the Liver of Japanese Sea Bass *Lateolabrax japonicus*

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Glutathione Peroxidase, Japanese Sea Bass, Subunit Composition

Glutathione peroxidase (EC 1.11.1.9) present in the liver of Japanese sea bass (*Lateolabrax japonicus*) was extracted and purified by phenyl-toyopearl 650M, butyl-toyopearl 650M and DEAE-toyopearl 650M column chromatography. The molecular weight of the enzyme was estimated to be about 70 kDa by gel filtration by toyopearl HW-55F. On SDS-PAGE, this enzyme was composed of two identical subunits with 35 kDa and was a dimer. This enzyme was a typical SH-enzyme that was inhibited by iodoacetic acid, PCMB, DTNB, and Hg.