3-3-2. Insect Immunity - Purification and Some Properties of Immune Protein (Hemolin) from Hemolymph of *Protaetia brevitarsis*

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Hemolin is the 48 kDa protein induced in response to bacteial infection and binds to Lipopolysaccharide(LPS) identified in the hemolymph of two lepidopteran insect species, *Hyalophora cecropia* and *Manduca sexta*. Based on these informations, we found the protein was bacteria-induced and bound to LPS, and the molecular weight is about 48 kDa on the SDS-PAGE in the last larval hemolyph of *Protaetia brevitarsis* after bacteria injection. Hemolin-like protein has been partially purified by gel permeation chromatography (Superdex) and resource Q (Anion-exchange chromatography) using fast performance liquid chromatography (FPLC) system.