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# Klebsiella pneumoniae Glycoprotein

National Cancer Institute

## Source

National Cancer Institute. *Klebsiella pneumoniae Glycoprotein*. NCI Thesaurus. Code C1018.

A glycoprotein complex extracted from *Klebsiella pneumoniae* K2O1 strain with immunostimulating property. This glycoprotein complex consists of 2 repetitive glycoprotein subunits; P1 comes from the bacterial capsule about 95 kD in molecular mass and F1, having an lipopolysaccharide-related structure (350 kDa), is derived from bacterial external membrane. Although the mechanism of action is not fully elucidated, *Klebsiella pneumoniae* F1 fraction appears to suppress monocyte apoptosis, hence inducing the differentiation of monocytes into macrophages. Furthermore, this agent also enhances humoral and cell-mediated immune responses, and increases natural killer cell cytotoxicity functions. This glycoprotein has been shown to reduce the incidence of infection.