Bc absorption cross sections by nucleons SONAINA UNDLEE, M.A.K. LODHI, Texas Tech U — The suppression of Bc may be a signature of the presence of a new state of matter, i.e. quark gluon plasma, but there is also absorption of Bc by commoving hadrons. This absorption must also be considered otherwise the explanation of the signal would not be clear. In order to study hadronic absorption of Bc, gauged SU(5) hadronic lagrangian in mesonic exchange model is used. The results with and without form factor explain the Bc absorption cross section by nucleons as a function of initial state centre of mass energy. These processes have peak near threshold with cross section magnitude of few mb. Moreover, by changing values of cutoff parameter in small increments in the monopole form factor used, results indicate that absorption cross section increases with the increase in cutoff parameter. This implies that absorption rate of Bc increases if it is considered to be a large size particle.