

ABSTRACT

The present invention provides a solid catalyst component for polymerization of olefins obtained by allowing a solid component and an alcohol to come in contact with each other, wherein the solid component is prepared by allowing a magnesium compound, a titanium compound and an electron donor compound to come in contact with each other, and also provides a catalyst for polymerization of olefins made of the solid catalyst component, an organic aluminum compound represented by the general formula $R^1_pAlO_{3-p}$ and an organic silicon compound represented by the general formula $R^2_qSi(OR^3)_{4-q}$. By using the catalysts in a polymerization of olefins, polyolefins excellent in stereoregularity can be obtained in high yield.