

ABSTRACT

A method for producing a solid catalyst component for olefin polymerization produces a novel solid catalyst component for olefin polymerization that achieves
5 excellent olefin polymerization activity and activity with respect to hydrogen during polymerization, and can produce an olefin polymer that exhibits a high MFR, high stereoregularity, and excellent rigidity. The method includes a first step that brings a magnesium compound, a tetravalent titanium halide compound, and one or more first internal electron donor compounds excluding an aromatic dicarboxylic acid diester into
10 contact with each other to effect a reaction, followed by washing; a second step that brings a tetravalent titanium halide compound and one or more second internal electron donor compounds into contact with a product obtained by the first step to effect a reaction, followed by washing; and a third step that brings one or more third internal electron donor compounds into contact with a product obtained by the second step to
15 effect a reaction.