

ABSTRACT

A method produces a novel solid catalyst component for olefin polymerization that achieves excellent olefin polymerization activity and activity with respect to
5 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 into contact with each other to effect a reaction, followed by washing; a second step that brings one or more second internal
10 electron donor compounds into contact with a product obtained by the first step to effect a reaction; and a third step that brings a tetravalent titanium halide compound and one or more third internal electron donor compounds into contact with a product obtained by the second step to effect a reaction.