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# ABSTRACT

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The present invention provides a method for producing various types of arylbis(perfluoroalkylsulfonyl)methane having a bulky aryl group and an electron-accepting aryl group in which synthesis was conventionally considered to be difficult, at high efficiency; a novel arylbis(perfluoroalkylsulfonyl)methane that can be widely applied to asymmetric catalyst, various types of functional materials and the like; and a metallic salt thereof. In addition, excellent catalysts are also provided. An aryl halomethane is reacted with a sodium trifluoromethane sulfinic acid, the arylmethyl triflone produced thereby is reacted with a *t*-BuLi and the like, the lithium salt of the arylmethyl triflone obtained is reacted with a trifluoromethane sulfonic acid anhydride, and an arylbis(trifluoromethylsulfonyl)methane such as pentafluorophenylbis(triflyl)methane, {4-(pentafluorophenyl)-2,3,5,6-tetrafluorophenyl}bis(triflyl)methane and the like are obtained at a high yield.