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Chemotherapeutic and pharmacological activities of a large number of plants are being detected by means of a wide range of biological screens in many parts of the world. Our attention was drawn to the genus *Stereospermum*, of the family Bignoniaceae, as the methanol extracts of the members of this genus were shown to exhibit biological activities such as antiviral, hypoglycaemic and anticancer. We have isolated an iridoid glycoside from the bark of *Stereospermum persunatum*. On the basis of UV, IR, NMR, MS studies, the structure has been identified as identical to specioside isolated previously from *Catalpa speciosa*. Specioside is reported to have antifeeding activity against the gypsy moth larvae, *Lymantria dispar* L. This is the second occasion that specioside has been isolated from a natural source.