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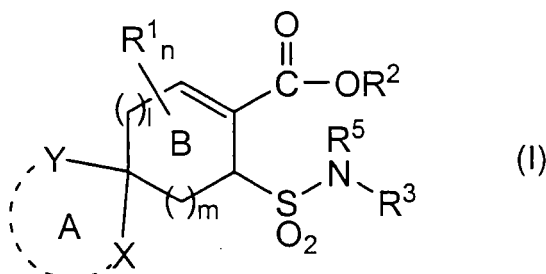
## Abstract

## [Object]

To provide a substituted cycloalkene derivative having an action to suppress intracellular signal transduction or cell activation induced by endotoxin and to suppress cell responses due to the intracellular signal transduction and cell activation such as an excess generation of inflammatory mediators such as TNF- $\alpha$ , pharmacologically acceptable salts therefor, a medicament containing them as an active ingredient, a preparation method therefor, and a medicament containing the aforementioned substituted cycloalkene derivative as an active ingredient which is superior in prophylaxis and/or treatment of diseases such as sepsis (septic shock, disseminated intravascular coagulation, multiple organ failure and the like), that are associated with intracellular signal transduction or cell activation induced by endotoxin and to cell responses to the intracellular signal transduction and cell activation.

## [Solution]

A compound represented by the general formula (I):



{wherein

X and Y represent a group in which X and Y together with a carbon atom to which they are bound form ring A (the ring is 3- to 7-membered heterocyclyl ring or 3- to 7-membered cycloalkyl ring), each represents a hydrogen atom, or X and Y together represent a substituent of ring B.

l and m, independently from each other, represent an integer of 0 to 3, and l + m is 1 to 3.

R<sup>1</sup> is an aliphatic hydrocarbon group and the like which may be



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substituted with a group selected from Substituent group  $\beta$  and Substituent group  $\gamma$ .  $n$  represents an integer of 0 to 3.

$R^2$  is a  $C_1$ - $C_6$  alkyl group and the like which may be substituted with a group selected from a hydrogen atom and Substituent group  $\beta$ .

$R^3$  is a phenyl group, 5- to 6-membered heteroaryl group and the like which may be substituted with a group selected from Substituent group  $\epsilon$ .

$R^5$  is a  $C_1$ - $C_6$  alkyl group and the like which may be substituted with a group selected from a hydrogen atom and Substituent group  $\beta$ .

Provided that in the case where  $R^3$  is a phenyl group which may be substituted with a group selected from Substituent group  $\epsilon$ , X and Y represent a group in which X and Y together with a carbon atom to which they are bound form ring A, or X and Y together represent a substituent of ring B.

[Selected drawing] None