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(54) **TRICYCLIC CONDENSED HETEROCYCLIC COMPOUND, METHOD FOR PRODUCING SAME, AND USE THEREOF**

TRICYCLISCHE KONDENSIERTE HETEROCYCLISCHE VERBINDUNG,
HERSTELLUNGSVERFAHREN DAFÜR UND VERWENDUNG DAVON

COMPOSÉ HÉTÉROCYCLIQUE CONDENSÉ TRICYCLIQUE, SON PROCÉDÉ DE PRODUCTION
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(56) References cited:
WO-A1-2008/140150 JP-T- 2003 509 508
JP-T- 2005 517 710

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- 'Dai 51 Kai Symposium on the Chemistry of Natural Products, Symposium Papers, 01 September 2009 (01.09.2009)', article FUMIE IWATA ET AL.: 'Idenshi Sodosei o Kagi to shita Kaiyo Kisho Hosenkin ga Sansei suru Shinki Seitai Kino Bunshi', pages 515 - 520
- SATO S. ET AL.: 'Indoxamycins A-F. Cytotoxic tricyclic polypropionates from a marine-derived actinomycete' J. ORG. CHEM. vol. 74, 02 July 2009, pages 5502 - 5509
- BUCHANAN O.G. ET AL.: 'Sporolides A and B: Structurally unprecedented halogenated macrolides from the marine actinomycete *Salinispora tropica*' ORG. LETT. vol. 7, no. 13, 2005, pages 2731 - 2734
- HUGHES C.C. ET AL.: 'The marinopyrroles, antibiotics of an unprecedented structure class from a marine *Streptomyces* sp' ORG. LETT. vol. 10, no. 4, 2008, pages 629 - 631
- KWON H.C. ET AL.: 'Marinomycins A-D, antitumor-antibiotics of a new structure class from a marine actinomycete of the recently discovered genus "*marinispora*"' J. AM. CHEM. SOC. vol. 128, 2006, pages 1622 - 1632
- SEDAKOVA L.A. ET AL.: 'Antitumor and toxic effects of amotin' EKSPERIMENTAL'NAYA ONKOLOGIYA vol. 9, no. 5, 1987, pages 76 - 77