

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2018/000395

A. CLASSIFICATION OF SUBJECT MATTER

C12Q 1/68(2006.01)i, G01N 33/574(2006.01)i, G01N 33/68(2006.01)i, A61K 31/11(2006.01)i, A61K 31/167(2006.01)i, A61K 48/00(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C12Q 1/68; G01N 33/574; G01N 33/68; A61K 31/11; A61K 31/167; A61K 48/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Utility models and applications for Utility models: IPC as above
Japanese Utility models and applications for Utility models: IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS (KIPO internal) & Keywords: oral cancer, oral precancer, Axin2, Snail, expression

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	RYU, Mi Heon et al., "The Immunohistochemical Expression of Snail and E-cadherin in Oral Squamous Cell Carcinoma", Kor. J. Oral Maxillofac. Pathol., 2009, vol. 33, no. 1, pages 37-46 See abstract; page 39, right column-page 40.	1-8
Y		1-8
Y	YOOK, J. I. et al., "A Wnt-Axin2-GSK3beta Cascade Regulates Snail1 Activity in Breast Cancer Cells", Nature Cell Biology, December 2006, vol. 8, no. 12, pages 1398-1406 See abstract; figures 1-2.	1-8
X	AHN, S.-G. et al., "The Anticancer Mechanism of 2'-hydroxycinnamaldehyde in Human Head and Neck Cancer Cells", International Journal of Oncology, 2015, vol. 47, pages 1793-1800 See abstract; page 1794, left column, page 1795; figures 2-4.	9
X	KIM, S.-A et al., "2'-Hydroxycinnamaldehyde Shows Antitumor Activity against Oral Cancer In Vitro and In Vivo in a Rat Tumor Model", Anticancer Research, 2010, vol. 30, pages 489-494 See abstract; pages 491-492; figures 1-3.	9
A	KR 10-2015-0125030 A (INDUSTRY-ACADEMIC COOPERATION FOUNDATION, YONSEI UNIVERSITY) 09 November 2015 See the entire document.	1-9



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family


Date of the actual completion of the international search

27 APRIL 2018 (27.04.2018)

Date of mailing of the international search report

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Name and mailing address of the ISA/KR

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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/KR2018/000395

Patent document cited in search report	Publication date	Patent family member	Publication date
KR 10-2015-0125030 A	09/11/2015	NONE	