

## Biblio

## Peptides binding to the dimer interface of thymidylate synthase for the treatment of cancer

## AB

(EP2507255)

Provided are peptides that bind to the thymidylate synthase protein, in particular to human thymidylate synthase (hTS) protein, for the treatment of cancer. Further provided are peptides that can bind to a binding site located at the interface of thymidylate synthase protein. These peptides range from 3 to 10, preferably 4-8 amino acids and have a sequence that binds to each subunit of the thymidylate synthase dimer at the level of dimer interface, stabilizing the dimeric inactive form of the thymidylate synthase enzyme. In addition, provided are pharmaceutical compositions including these compounds as active agents, and uses thereof for the treatment of cancer and to reverse or/and be active in cancer drug resistance.

(From US8916679 B2)

## List of publications

<input type="checkbox"/>	Publication number	Publ. date	Appl. Number	Appl. Date	Document type	
<input type="checkbox"/>	PCT WO2011067624	2011-06-09	2009WO-IB55439	2009-12-01	A1 - Published application with search report	
<input checked="" type="checkbox"/>	EP2507255	2012-10-10	2009EP-0774976	2009-12-01	A1 - Application published with search report	
<input checked="" type="checkbox"/>	US2012302511	2012-11-29	2009US-13513480	2009-12-01	A1 - Application published	
<input checked="" type="checkbox"/>	US8916679	2014-12-23	2009US-13513480	2009-12-01	B2 - Granted patent as second publication	
<b>IN</b>	<b>COSTI MARIA PAOLA</b> MARVERTI GAETANO CARDINALE DANIELA VENTURELLI ALBERTO FERRARI STEFANIA PONTERINI GLAUCO HENRICH STEFAN SALO-AHEN OUTI WADE REBECCA					
<b>PA</b>	HEIDELBERG INSTITUTE FOR THEORETICAL STUDIES HEIDELBERG INSTITUTE FOR THEORETICAL STUDIES HITS GGMBH UNIVERSITA DEGLI STUDI DI MODENA E REGGIO EMILIA					
<b>REAS</b>	CARDINALE DANIELA; FROM 2012-06-05 TO 2012-06-05 COSTI MARIA PAOLA; FROM 2012-06-05 TO 2012-06-05 FERRARI STEFANIA; FROM 2012-06-05 TO 2012-06-05 HENRICH STEFAN; FROM 2012-06-05 TO 2012-06-05 MARVERTI GAETANO; FROM 2012-06-05 TO 2012-06-05 PONTERINI GLAUCO; FROM 2012-06-05 TO 2012-06-05 SALO AHEN OUTI; FROM 2012-06-05 TO 2012-06-05 VENTURELLI ALBERTO; FROM 2012-06-05 TO 2012-06-05 WADE REBECCA; FROM 2012-06-05 TO 2012-06-05 HEIDELBERG INSTITUTE FOR THEORETICAL STUDIES; FROM 2012-06-05 UNIVERSITA DEGLI STUDI DI MODENA & REGGIO EMILIA; FROM 2012-06-05					
<b>RP</b>	(EP2507255) Biggi, Cristina ; Bugnion S.p.A. [IT] Reg. Nb: 101174487  (WO201167624) BIGGI, Cristina et al. [IT]  (US8916679) Vorys, Sater, Seymour and Pease LLP; Hopkins Susanne M.					
<b>PR</b>	2009WO-IB55439 2009-12-01					
<b>TECD</b>	Pharmaceuticals					
<b>PCL</b>	530300000* 514001100					
<b>IC</b>	<a href="#">A61K-038/00</a> <a href="#">A61K-038/02</a> <a href="#">A61K-038/03</a> <a href="#">A61K-038/04</a> <a href="#">A61K-038/05</a> <a href="#">A61K-038/08</a> <a href="#">C07K-005/083</a> <a href="#">C07K-005/093</a> <a href="#">C07K-007/04*</a> <a href="#">C07K-007/06</a> <a href="#">C12N-009/10</a>					
<b>CPC</b>	<a href="#">A61K-038/00C07K-005/0808C07K-005/0819C07K-007/06C12N-009/10/07*</a>					
<b>EC</b>	<a href="#">C07K-005/08A1B</a> <a href="#">C07K-005/08C</a> <a href="#">C07K-007/06</a> <a href="#">C12N-009/10A1</a> <a href="#">K61K-038/00</a>					
<b>CT</b>	(EP2507255) International Search Report [Examiner] -WO2004081206 (A2) (Cat. X) [WO200481206] AFFINIUM PHARM INC, et al; -WO2006124684 (A2) (Cat. Y) [WO2006124684] SQUIBB BRISTOL MYERS CO, et al; -WO200239947 (A2) (Cat. Y) [WO200239947] CENTRE NAT RECH SCIENT, et al; Applicant citations -WO20072753 (A2) [WO20072753] US GOV HEALTH & HUMAN SERV. et al; -US5804604 (A) [US5804604] FRANKEL ALAN, et al; -US5747641 (A) [US5747641] FRANKEL ALAN, et al; -US5674980 (A) [US5674980] FRANKEL ALAN, et al; -US5670617 (A) [US5670617] FRANKEL ALAN, et al; -US5652122 (A) [US5652122] FRANKEL ALAN, et al; (WO201167624) International Search Report [Examiner] -WO2004081206 (A2) (Cat. X) [WO200481206] AFFINIUM PHARM INC, et al; -WO2006124684 (A2) (Cat. Y) [WO2006124684] SQUIBB BRISTOL MYERS CO, et al; -WO200239947 (A2) (Cat. Y) [WO200239947] CENTRE NAT RECH SCIENT, et al; Applicant citations -WO20072753 (A2) [WO20072753] US GOV HEALTH & HUMAN SERV. et al; -US5804604 (A) [US5804604] FRANKEL ALAN, et al; -US5747641 (A) [US5747641] FRANKEL ALAN, et al; -US5674980 (A) [US5674980] FRANKEL ALAN, et al; -US5670617 (A) [US5670617] FRANKEL ALAN, et al; -US5652122 (A) [US5652122] FRANKEL ALAN, et al; (US8916679) Examiner citations -WOWO20072753 (A1) [WO20072753] A61K 38/16; -WOWO2008021290 (A1) [WO2008021290] G01N 33/53; Applicant citations -WO239947 (A2) [WO-239947]; -WO2004081206 (A2) [WO2004081206]; -WO2006124684 (A2) [WO2006124684];					
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