

(54) Title of the invention : A METHOD FOR SYNTHESIZING NOVEL NAPHTHALAMIDE DERIVATIVES FOR USE IN PREPARATION OF AN ANTI-CANCER DRUG

<p>(51) International classification :A61P0035000000, C07D0221140000, C07C0201120000, C07D0409060000, C07D0217240000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Andhra University Address of Applicant :Andhra University, Waltair, Visakhapatnam-530003, Andhra Pradesh, India. Visakhapatnam -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. V S Apparao Bheesetti Address of Applicant :Research Scholar, Department of Engineering Chemistry, Andhra University, Waltair Junction, Visakhapatnam-530003, Andhra Pradesh, India. Visakhapatnam -----</p> <p>2)Dr. Bonige Kishore Babu Address of Applicant :Associate Professor, Department of Engineering Chemistry, Andhra University, Waltair Junction, Visakhapatnam-530003, Andhra Pradesh, India. Visakhapatnam -----</p> <p>3)Dr. B. Swarnalatha Address of Applicant :Associate Professor, Department of Engineering Physics, Andhra University, Waltair Junction, Visakhapatnam-530003, Andhra Pradesh, India. Visakhapatnam -----</p> <p>4)Mr. Chintalapati S Verraju Address of Applicant :Research Scholar, Department of Engineering Chemistry, Andhra University, Waltair Junction, Visakhapatnam-530003, Andhra Pradesh, India. Visakhapatnam -----</p> <p>5)Mr. Chintada Gopi Address of Applicant :Research Scholar, Department of Engineering Chemistry, Andhra University, Waltair Junction, Visakhapatnam-530003, Andhra Pradesh, India. Visakhapatnam -----</p> <p>6)Ms. Sree Datta Rekha Phani Penmetsa Address of Applicant :Research Scholar, Department of Engineering Chemistry, Andhra University, Waltair Junction, Visakhapatnam-530003, Andhra Pradesh, India. Visakhapatnam -----</p>
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(57) Abstract :

ABSTRACT: Title: A Method for Synthesizing Novel Naphthalamide Derivatives for Use in Preparation of an Anti-Cancer Drug The present disclosure proposes a method for synthesizing a naphthalamide derivative 6-amino-2-(3, 4-difluorophenyl)-1H-benzo [de]isoquinoline-1, 3(2H)-dione (108) for anti-proliferative action to reduce the risk of cancer. Initially raw material acenaphthalene converted into nitro acenaphthalene (102) by using nitration, then the nitro acenaphthalene (102) is converted into 4-nitro-1,8-naphthalic anhydride (104) by oxidation, then 4-nitro-1,8-naphthalic anhydride (104) is condensed with 3,4- Difluoro aniline followed by reduction to get final product 6-amino-2-(3, 4-difluorophenyl)-1H-benzo [de]isoquinoline-1, 3(2H)-dione (108).

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