

(12) STANDARD PATENT
(19) AUSTRALIAN PATENT OFFICE

(11) Application No. **AU 2016262698 B2**

(54) Title
**COMBINATIONS OF A MUSCARINIC RECEPTOR ANTAGONIST AND A BETA-2 AD-
RENORECEPTOR AGONIST**

(51) International Patent Classification(s)
A61K 31/138 (2006.01) **A61P 11/06** (2006.01)
A61K 31/439 (2006.01) **A61P 11/08** (2006.01)
A61K 45/06 (2006.01)

(21) Application No: **2016262698** (22) Date of Filing: **2016.11.23**

(43) Publication Date: **2016.12.15**

(43) Publication Journal Date: **2016.12.15**

(44) Accepted Journal Date: **2018.10.25**

(62) Divisional of:
2014204459

(71) Applicant(s)
Glaxo Group Limited

(72) Inventor(s)
Baker, Darrell; Bruce, Mark; Crater, Glenn; Noga, Brian; Thomas, Marian; Wire, Patrick

(74) Agent / Attorney
Phillips Ormonde Fitzpatrick, PO Box 323, Collins Street West, VIC, 8007, AU

(56) Related Art
WO 2003/024439 A1
WO 2005/104745 A2
**LAINE D et al., "Discovery of novel 1-Azoniabicyclo{2.2.2}octane Muscarinic
Acetylcholine Receptor Antagonists", Journal of Medicinal Chemistry, April 2009,
Vol. 52, No. 8, pages 2493-2505**