

**(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**