

Abstract

Therapeutic Agents

- 5 An immunoresponsive cell, such as a T-cell expressing
- (i) a second generation chimeric antigen receptor comprising:
 - (a) a signalling region;
 - (b) a co-stimulatory signalling region;
 - 10 (c) a transmembrane domain; and
 - (d) a binding element that specifically interacts with a first epitope on a target antigen; and
 - (ii) a chimeric costimulatory receptor comprising
 - (e) a co-stimulatory signalling region which is
 - 15 different to that of (b);
 - (f) a transmembrane domain; and
 - (g) a binding element that specifically interacts with a second epitope on a target antigen.
- This arrangement is referred to as parallel chimeric activating
- 20 receptors (pCAR). Cells of this type are useful in therapy, and kits and methods for using them as well as methods for preparing them are described and claimed.

[No figure]