ABSTRACT

TAGGED CHIMERIC EFFECTOR MOLECULES AND RECEPTORS THEREOF

The present disclosure relates to tagged chimeric effector molecules and receptor molecules thereof for genetically engineering a host cell, wherein the recombinant host cell can be identified, isolated, sorted, induced to proliferate, tracked or eliminated using the tag. An exemplary receptor molecule is a chimeric antigen receptors (CARs) having an extracellular domain comprising a binding domain for a target, a hinge region and a tag cassette, a hydrophobic portion as a transmembrane domain and, an intracellular part with an effector domain. An exemplary target is CD19, an exemplary tag is a Step-tag. T cells recombinantly modified for expression of such molecules may be used in adoptive immunotherapy.

[Figure 1]