

iCas9 HA-T2A-antiCD19scFv-CD28-CD3ζ –Flag CAR T-cells

Product Information					
Catalog#	AMS.PM-CAR1010				
Name	iCas9 HA-T2A-antiCD19scFv-CD28-CD3ζ-Flag				
Order Information					
Size	1x10 ⁶ cells	2x10 ⁶ cells	1x10 ⁷ cells	2x10 ⁸ cells	> 1x10 ⁹ cells
Concentration	1x10 ⁶ cells/mL	1x10 ⁶ cells/mL	1x10 ⁶ cells/mL	1x10 ⁶ cells/mL	1x10 ⁶ cells/mL
Price	Inquire	Inquire	Inquire	Inquire	Inquire
Specification					
Category	CAR T-cells				
Storage	Short term -80°C; > 2 months liquid nitrogen -196°C				
Formulation	Frozen down confluent cells in freeze down media				
Uses	Immunotherapy research only				
Source	T-cells from a healthy donor transduced by lentivirus				
Description					
<p>The inducible caspase-9-CD19 CAR construct consists of FKBP12 gene with mutation F36 to V coding two 12 kDa FK506 binding proteins with HA tag at the end fused to truncated Caspase9 (135-416; lacking pro-domain), followed by T2A peptide and then CD19scFv-CD28- CD3zeta without signaling peptide and with Flag. This construct can be used as a negative control for PM-CAR1006-1M (it expressed same length as icasp-CD19 without tags but is nonfunctional protein). In the presence of dimerization agent, AP20187 or AP1903, caspase-9 is activated inducing cell killing. Introduction of inducible caspase-9 can be used for increasing safety of CAR-T cells in the presence of dimerization agent</p>					
Physical					
Frozen cell pellet.					

SEE DATA ON NEXT PAGE

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I-Casp9-CD19ScFv-28-CD3z

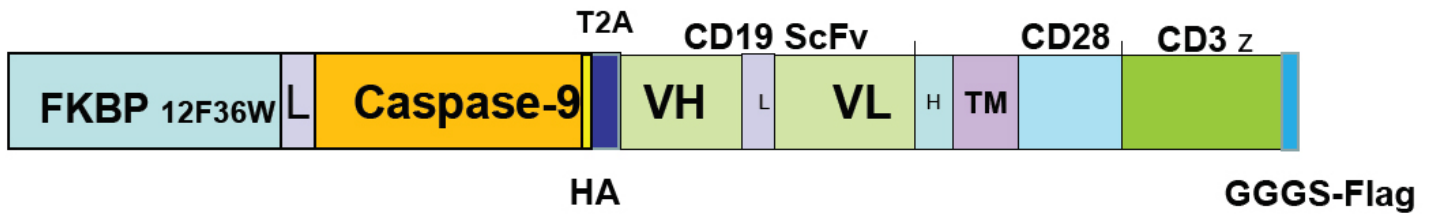


Figure 1. CAR-T cells expressing the above construct are available targeting CD19 with inducible caspase-9. Both genes are separated with T2A peptide sequence allowing independent expression of both gene products. ScFv, single chain variable fragment. HA and Flag tags are indicated at the end of each gene.

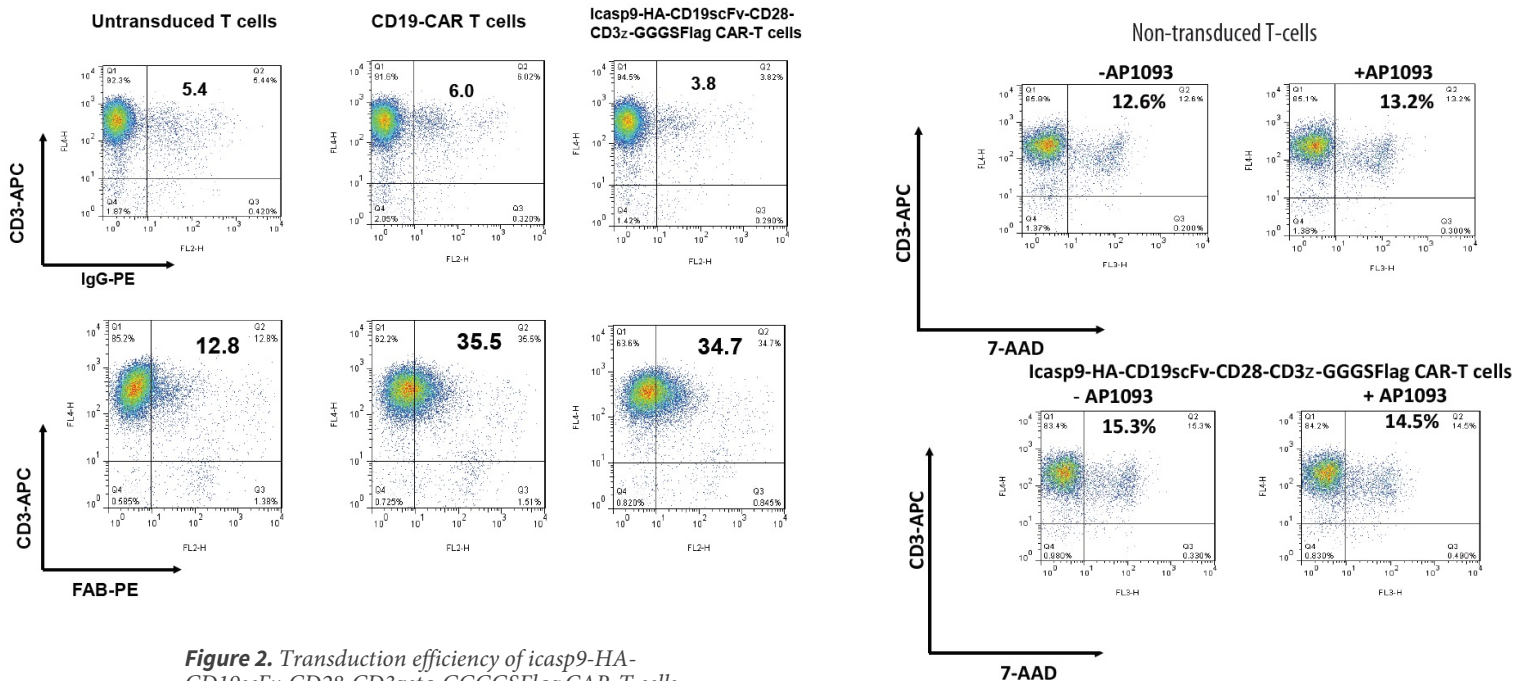


Figure 2. Transduction efficiency of *icasp9*-HA-CD19scFv-CD28-CD3zeta-GGGGFlag CAR-T cells and CD19-CAR-T cells. Ab showing expression of scFv.

Figure 3. Addition of chemical inducer of dimerization (CID) AP1903 100 nM for 24 hours did induce CAR-T cell killing.

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