

## Simlukafusp Alfa ELISA Kit

## Summary

Catalog No. KDG32202

Alternative Names FAP-IL2v, RO6874281/RG7461

The stability of ELISA kit is determined by the loss rate of activity. The loss

Stability and Storage rate of this kit is less than 10% prior to the expiration date under

appropriate storage condition.

**Detection method** Colorimetric

Sample type Plasma, Serum

Assay type Quantitative

Sensitivity 0.156 µg/ml

Range  $0.31-5 \mu q/mL$ 

**Recovery** 80-120%

Shipping 2-8 °C

Note For Research Use Only.

## Background

Simlukafusp alfa (FAP-IL2v, RO6874281/RG7461) is an immunocytokine comprising an antibody against fibroblast activation protein  $\alpha$  (FAP) and an IL-2 variant with a retained affinity for IL-2R $\beta\gamma$  > IL-2 R $\beta\gamma$  and abolished binding to IL-2 R $\alpha$ . Here, we investigated the immunostimulatory properties of FAP-IL2v and its combination with programmed cell death protein 1 (PD-1) checkpoint inhibition, CD40 agonism, T cell bispecific and antibody-dependent cellular cytotoxicity (ADCC)-mediating antibodies. The binding and immunostimulatory properties of FAP-IL2v were investigated in vitro and compared with FAP-IL2wt.





Tumor targeting was investigated in tumor-bearing mice and in a rhesus monkey. The ability of FAP-IL2v to potentiate the efficacy of different immunotherapies was investigated in different xenograft and syngeneic murine tumor models. FAP-IL2v bound IL-2 RBy and FAP with high affinity in vitro, inducing dose-dependent proliferation of natural killer (NK) cells and CD4+/CD8+ T cells while being significantly less potent than FAP-IL2wt in activating immunosuppressive regulatory T cells (Tregs). T cells activated by FAP-IL2v were less sensitive to Fas-mediated apoptosis than those activated by FAP-IL2wt. Imaging studies demonstrated improved tumor targeting of FAP-IL2v compared to FAP-IL2wt. Furthermore, FAP-IL2v significantly enhanced the in vitro and in vivo activity of therapeutic antibodies that mediate antibody-dependent or T cell-dependent cellular cytotoxicity (TDCC) and of programmed death-ligand 1 (PD-L1) checkpoint inhibition. The triple combination of FAP-IL2v with an anti-PD-L1 antibody and an agonistic CD40 antibody was most efficacious. These data indicate that FAP-IL2v is a potent immunocytokine that potentiates the efficacy of different T- and NK-cell-based cancer immunotherapies.

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Pre	CIS	ion

CV<20%

## Data Image