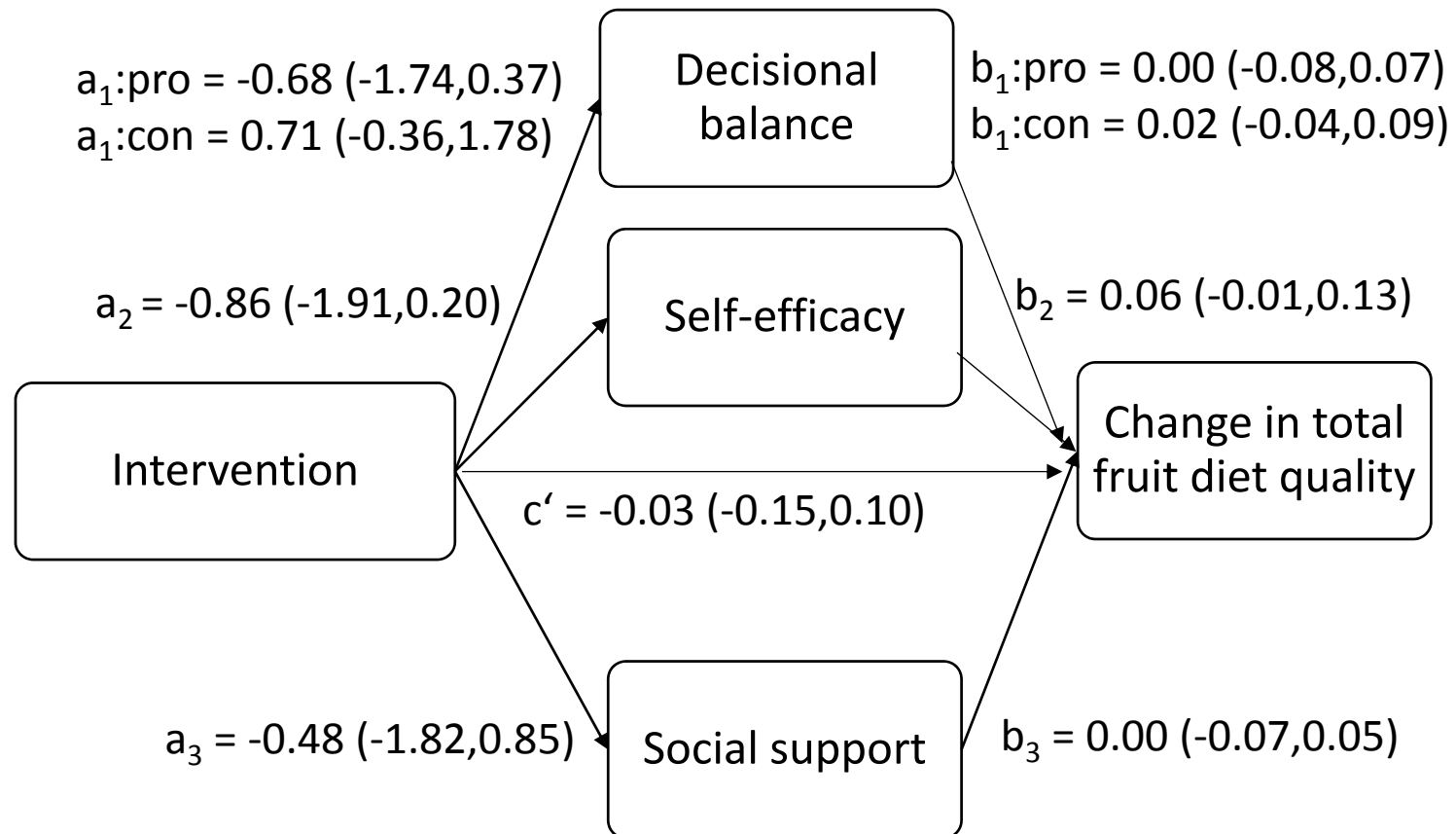
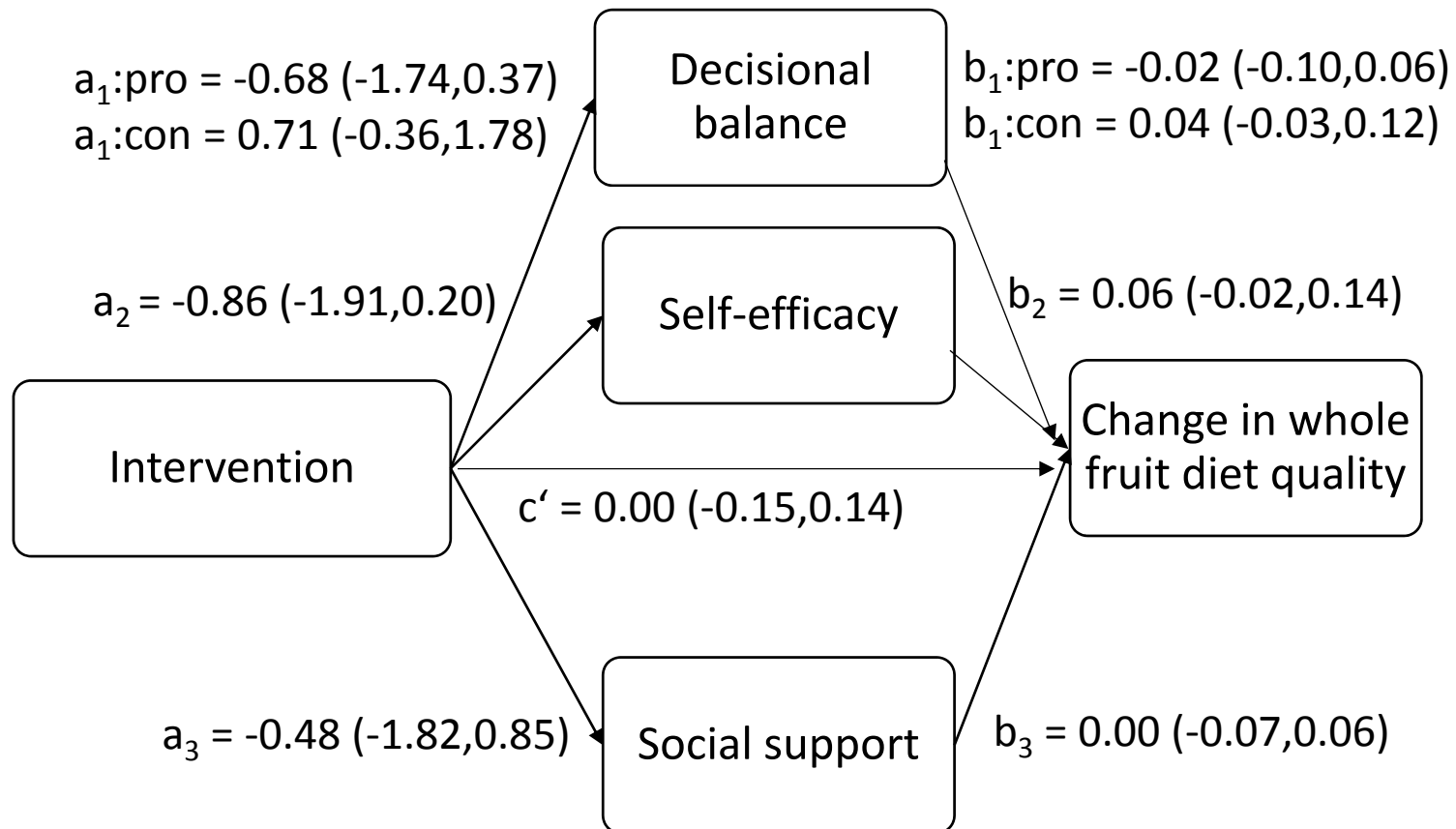


### Mediation of Total Fruit Diet Quality



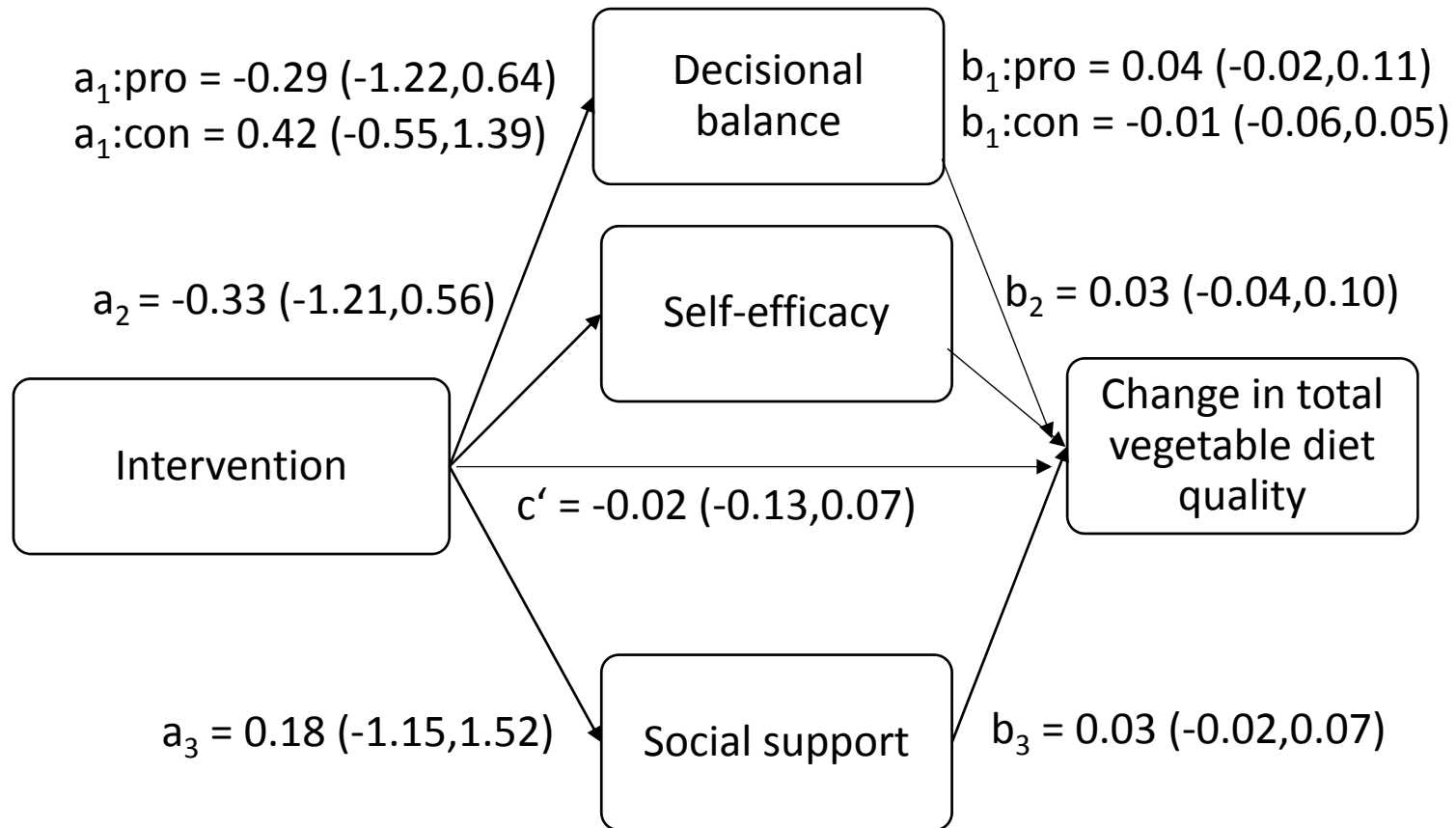
**Supplementary Fig. 2** Mediation of intervention effects on change in total fruit diet quality by psychosocial constructs. Model coefficients  $a_1$ ,  $a_2$ , and  $a_3$  represent direct effects of the intervention on the psychosocial constructs. Model coefficients  $b_1$ ,  $b_2$ , and  $b_3$  represent direct effects of the psychosocial constructs on change in total fruit diet quality. Model coefficient  $c'$  represents the indirect effect of the psychosocial constructs on total fruit diet quality.

### Mediation of Whole Fruit Diet Quality



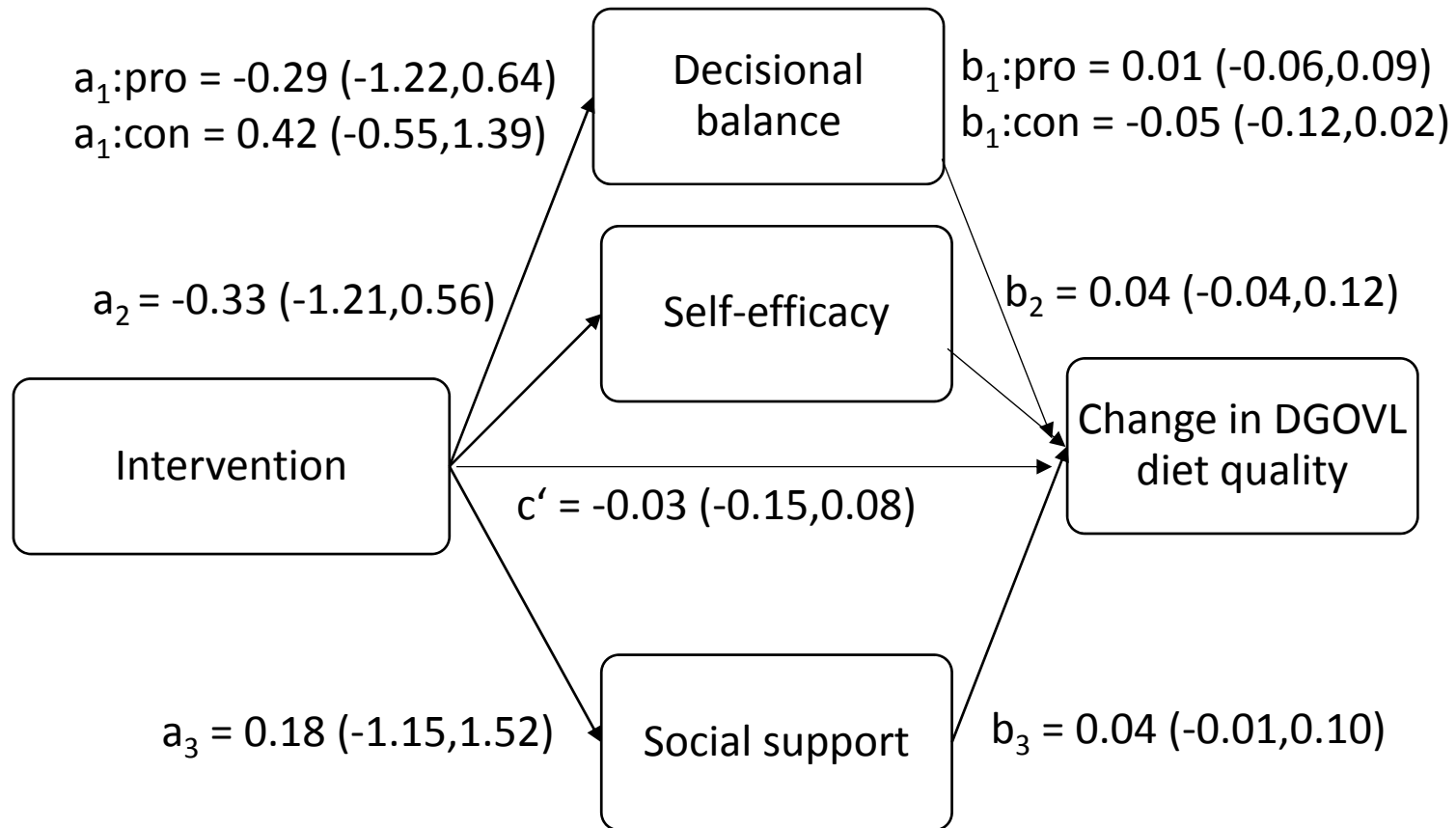
**Supplementary Fig. 3** Mediation of intervention effects on change in whole fruit diet quality by psychosocial constructs. Model coefficients  $a_1$ ,  $a_2$ , and  $a_3$  represent direct effects of the intervention on the psychosocial constructs. Model coefficients  $b_1$ ,  $b_2$ , and  $b_3$  represent direct effects of the psychosocial constructs on change in whole fruit diet quality. Model coefficient  $c'$  represents the indirect effect of the psychosocial constructs on whole fruit diet quality.

### Mediation of Total Vegetable Diet Quality



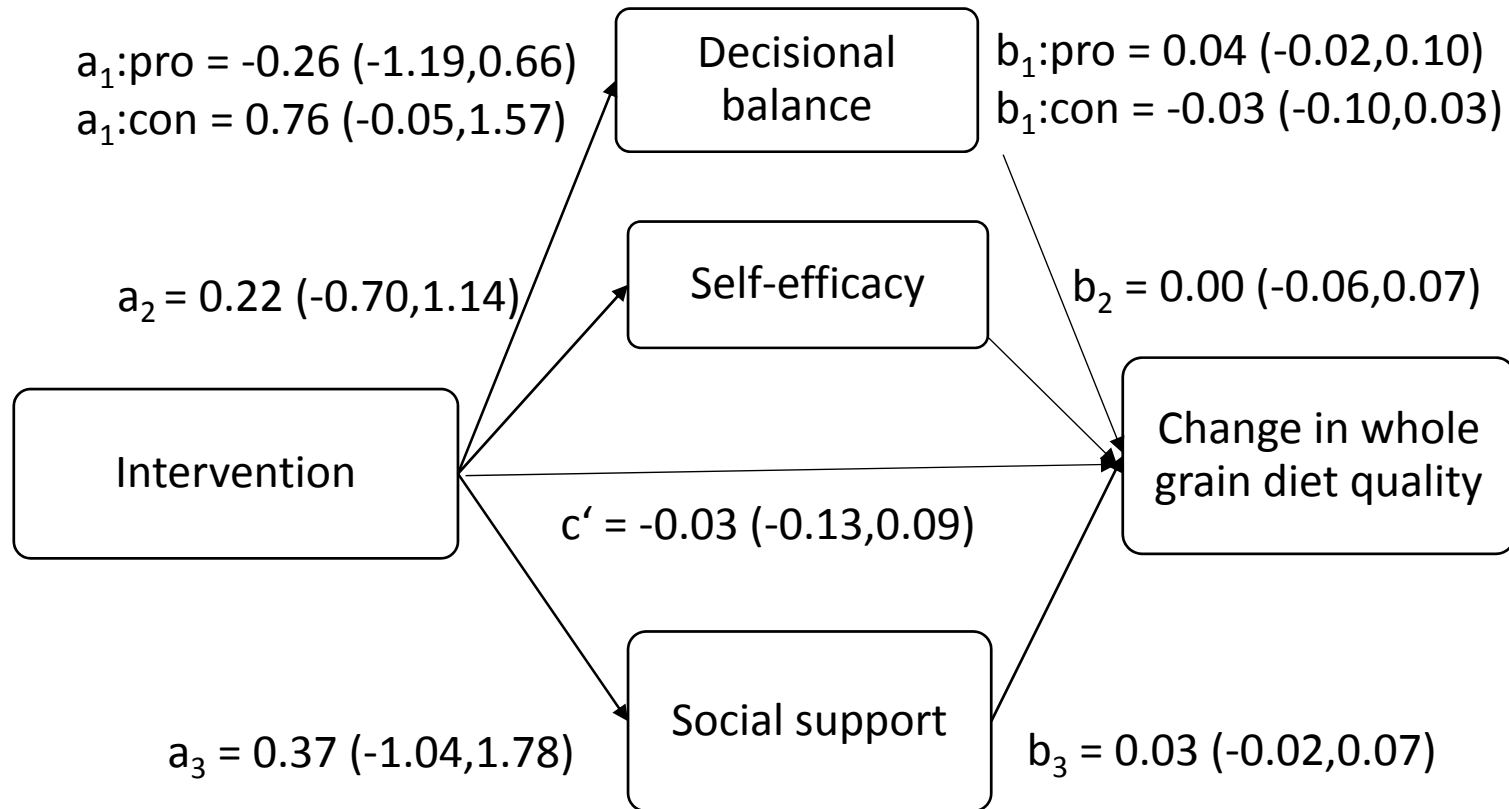
**Supplementary Fig. 4** Mediation of intervention effects on change in total vegetable diet quality by psychosocial constructs. Model coefficients  $a_1$ ,  $a_2$ , and  $a_3$  represent direct effects of the intervention on the psychosocial constructs. Model coefficients  $b_1$ ,  $b_2$ , and  $b_3$  represent direct effects of the psychosocial constructs on change in total vegetable diet quality. Model coefficient  $c'$  represents the indirect effect of the psychosocial constructs on total vegetable diet quality.

### Mediation of Dark Green and Orange Vegetables and Legumes (DGOVL)



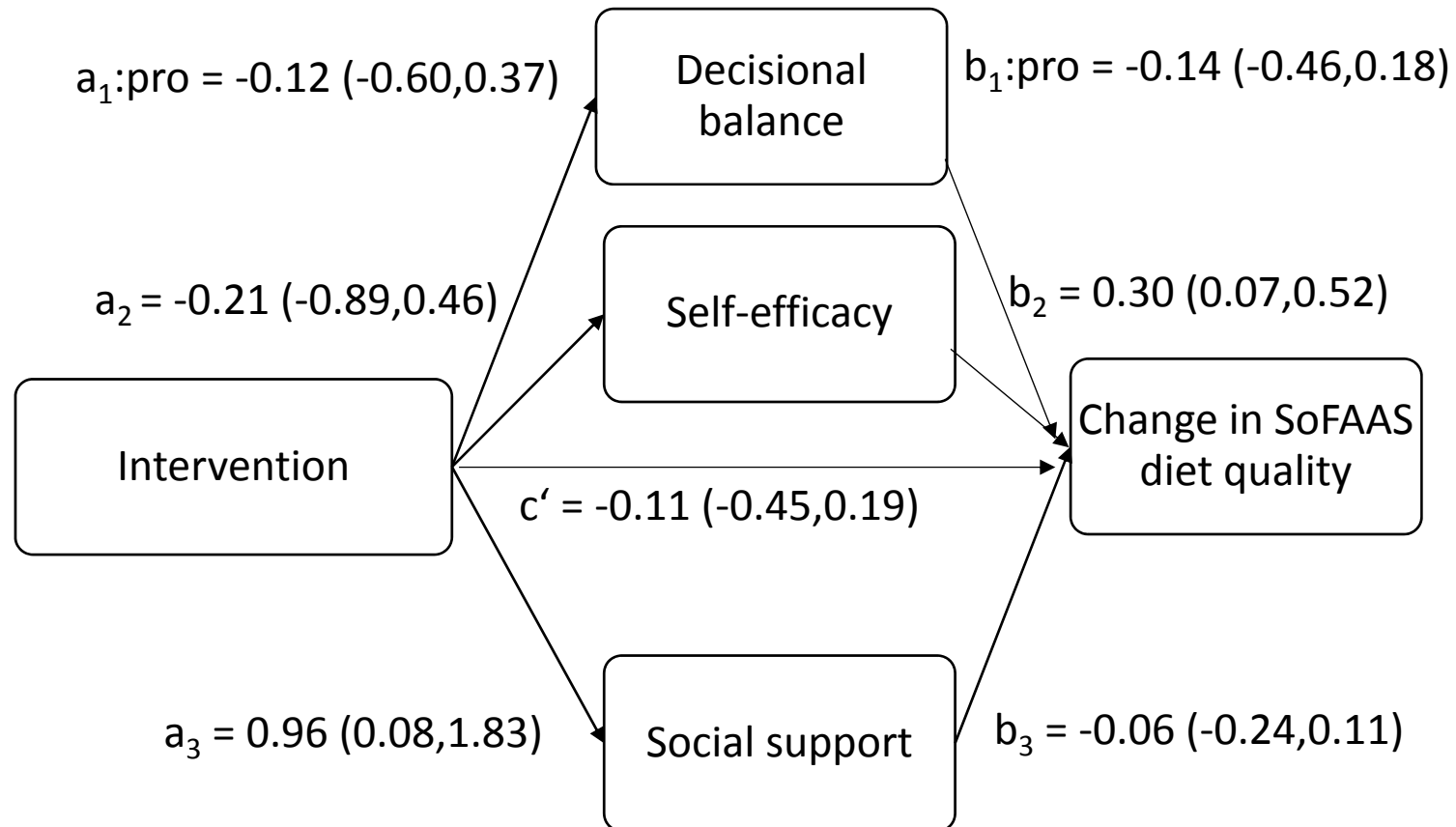
**Supplementary Fig. 5** Mediation of intervention effects on change in DGOVL diet quality by psychosocial constructs. Model coefficients  $a_1$ ,  $a_2$ , and  $a_3$  represent direct effects of the intervention on the psychosocial constructs. Model coefficients  $b_1$ ,  $b_2$ , and  $b_3$  represent direct effects of the psychosocial constructs on change in DGOVL quality. Model coefficient  $c'$  represents the indirect effect of the psychosocial constructs on DGOVL diet quality.

### Mediation of Whole Grain Diet Quality



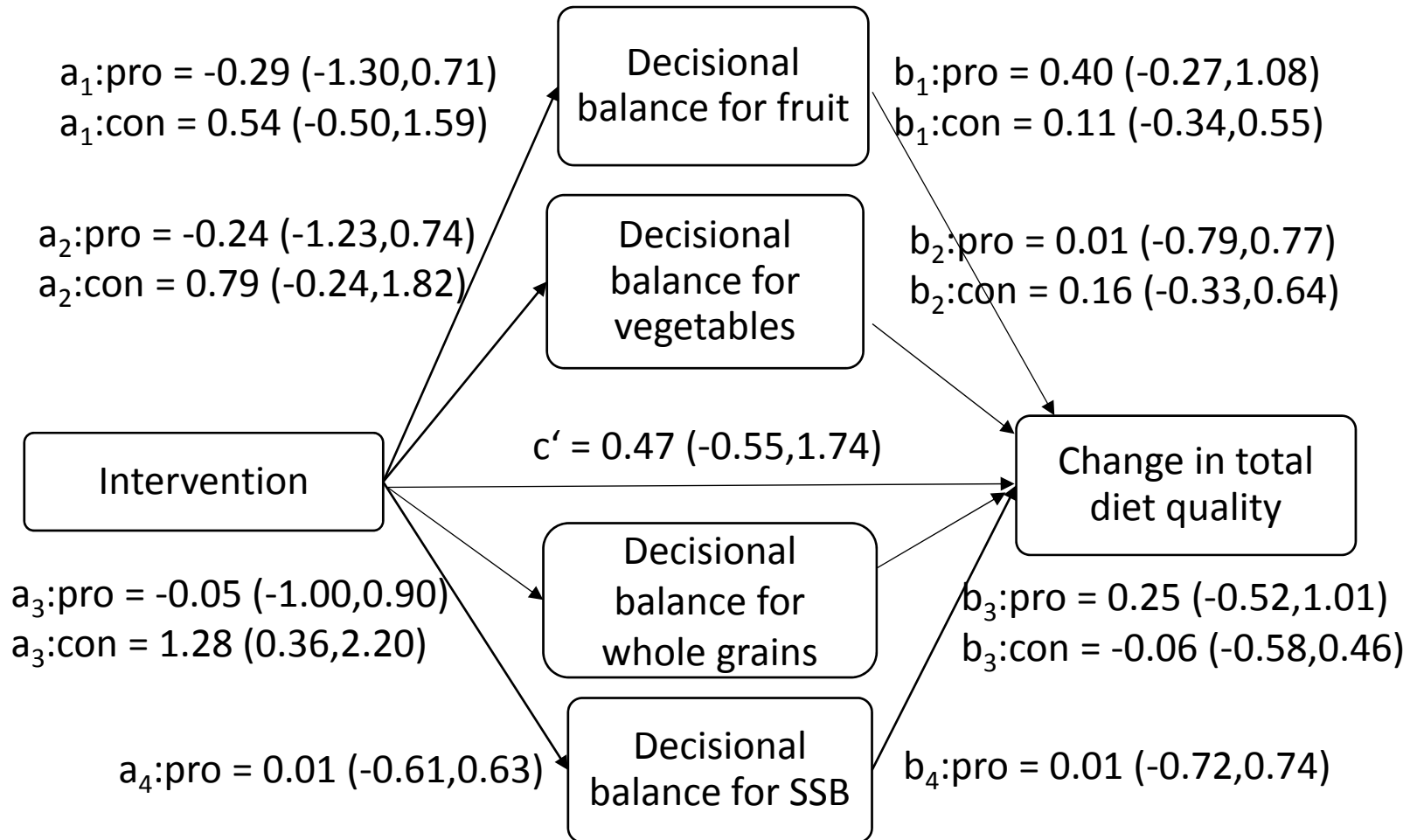
**Supplementary Fig. 6** Mediation of intervention effects on change in whole grain diet quality by psychosocial constructs. Model coefficients  $a_1$ ,  $a_2$ , and  $a_3$  represent direct effects of the intervention on the psychosocial constructs. Model coefficients  $b_1$ ,  $b_2$ , and  $b_3$  represent direct effects of the psychosocial constructs on change in whole grain quality. Model coefficient  $c'$  represents the indirect effect of the psychosocial constructs on whole grain diet quality.

### Mediation of Solid Fats, Alcoholic Beverages, and Added Sugars (SoFAAS) Diet Quality



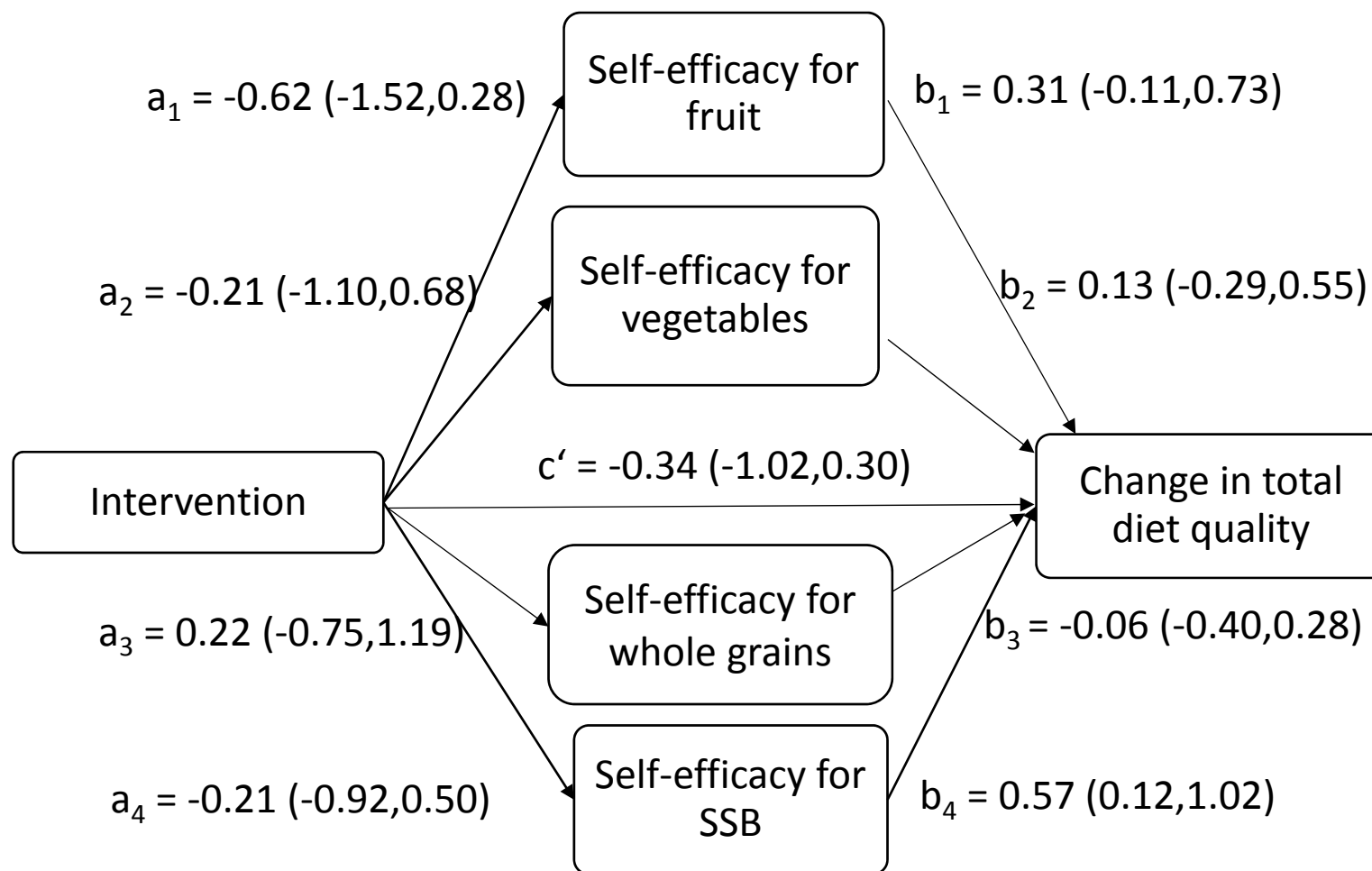
**Supplementary Fig. 7** Mediation of intervention effects on change in SoFAAS diet quality by psychosocial constructs. Model coefficients  $a_1$ ,  $a_2$ , and  $a_3$  represent direct effects of the intervention on the psychosocial constructs. Model coefficients  $b_1$ ,  $b_2$ , and  $b_3$  represent direct effects of the psychosocial constructs on change in SoFAAS quality. Model coefficient  $c'$  represents the indirect effect of the psychosocial constructs on SoFAAS diet quality.

## Mediation of Total Diet Quality by Decisional Balance



**Supplementary Fig. 8** Mediation of intervention effects on change in total diet quality by decisional balance. Model coefficients  $a_1$ ,  $a_2$ , and  $a_3$  represent direct effects of the intervention on the psychosocial constructs. Model coefficients  $b_1$ ,  $b_2$ , and  $b_3$  represent direct effects of decisional balance on change in total diet quality. Model coefficient  $c'$  represents the indirect effect of decisional balance on total diet quality.

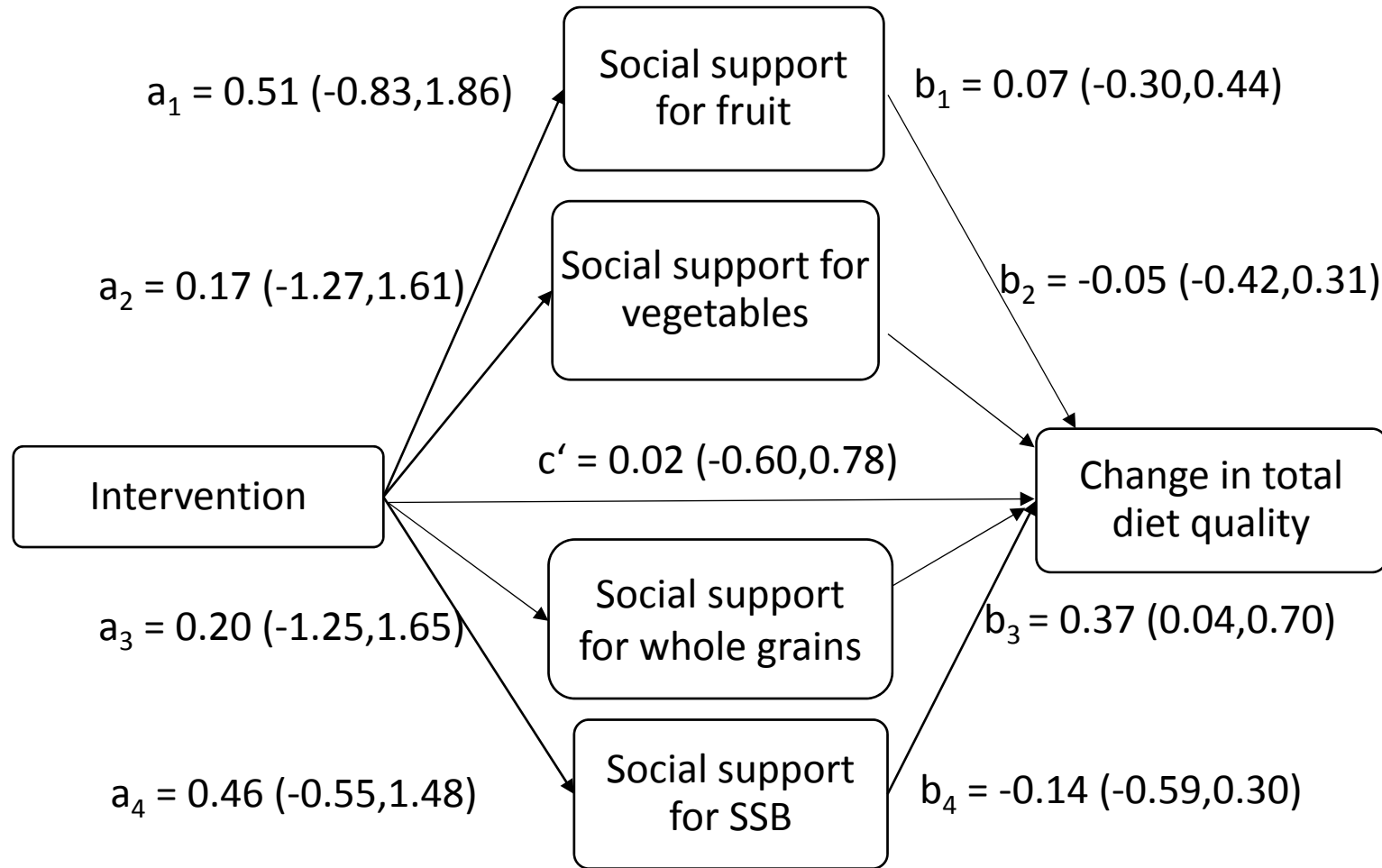
## Mediation of Total Diet Quality by Self-Efficacy



**Supplementary Fig. 9** Mediation of intervention effects on change in total diet quality by self-efficacy. Model coefficients  $a_1$ ,  $a_2$ , and  $a_3$  represent direct effects of the intervention on self-efficacy. Model coefficients  $b_1$ ,  $b_2$ , and  $b_3$  represent direct effects of self-efficacy on change in total quality. Model coefficient  $c'$  represents the indirect effect of self-efficacy on total diet quality.

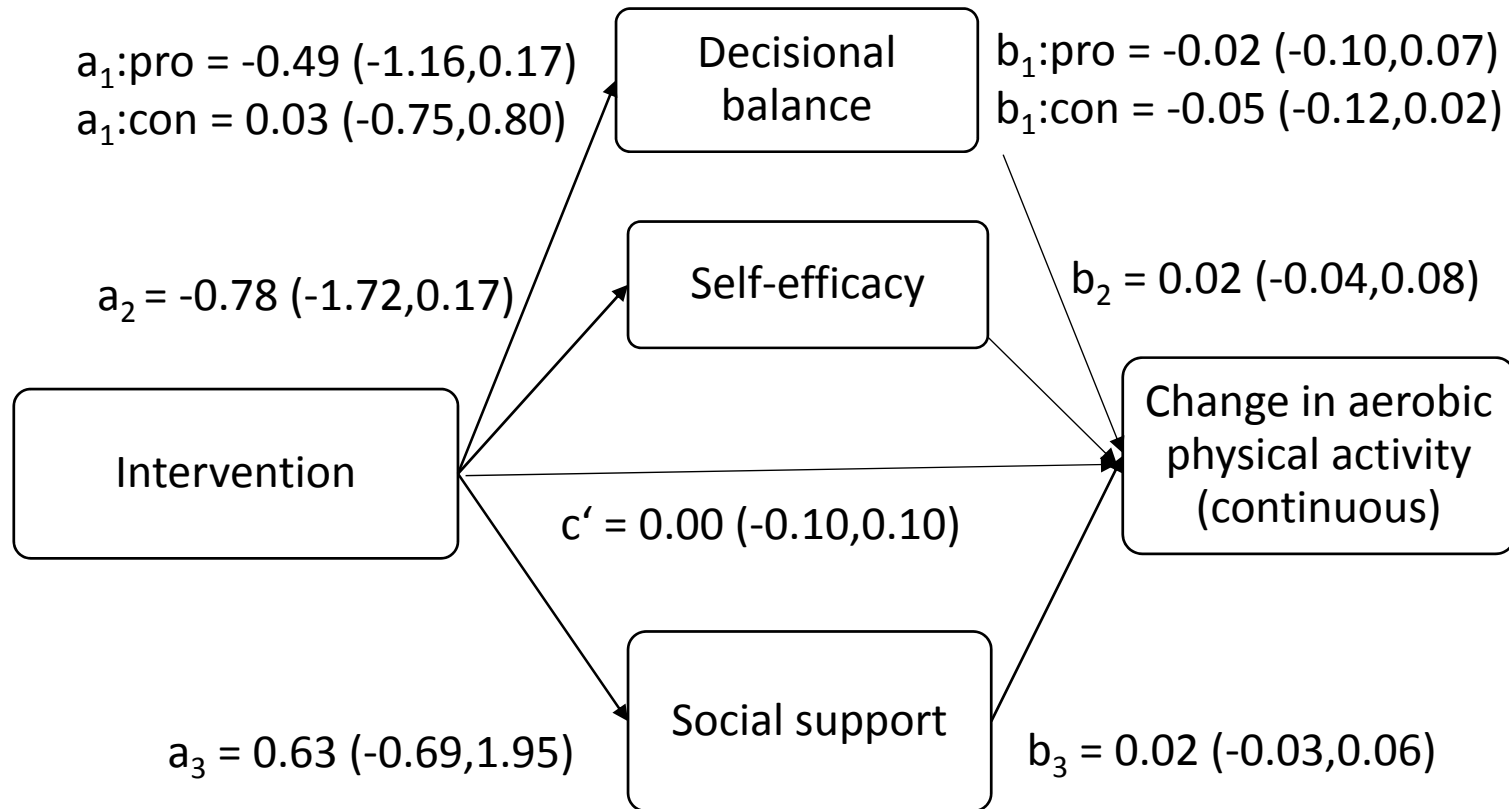


### Mediation of Total Diet Quality by Social Support



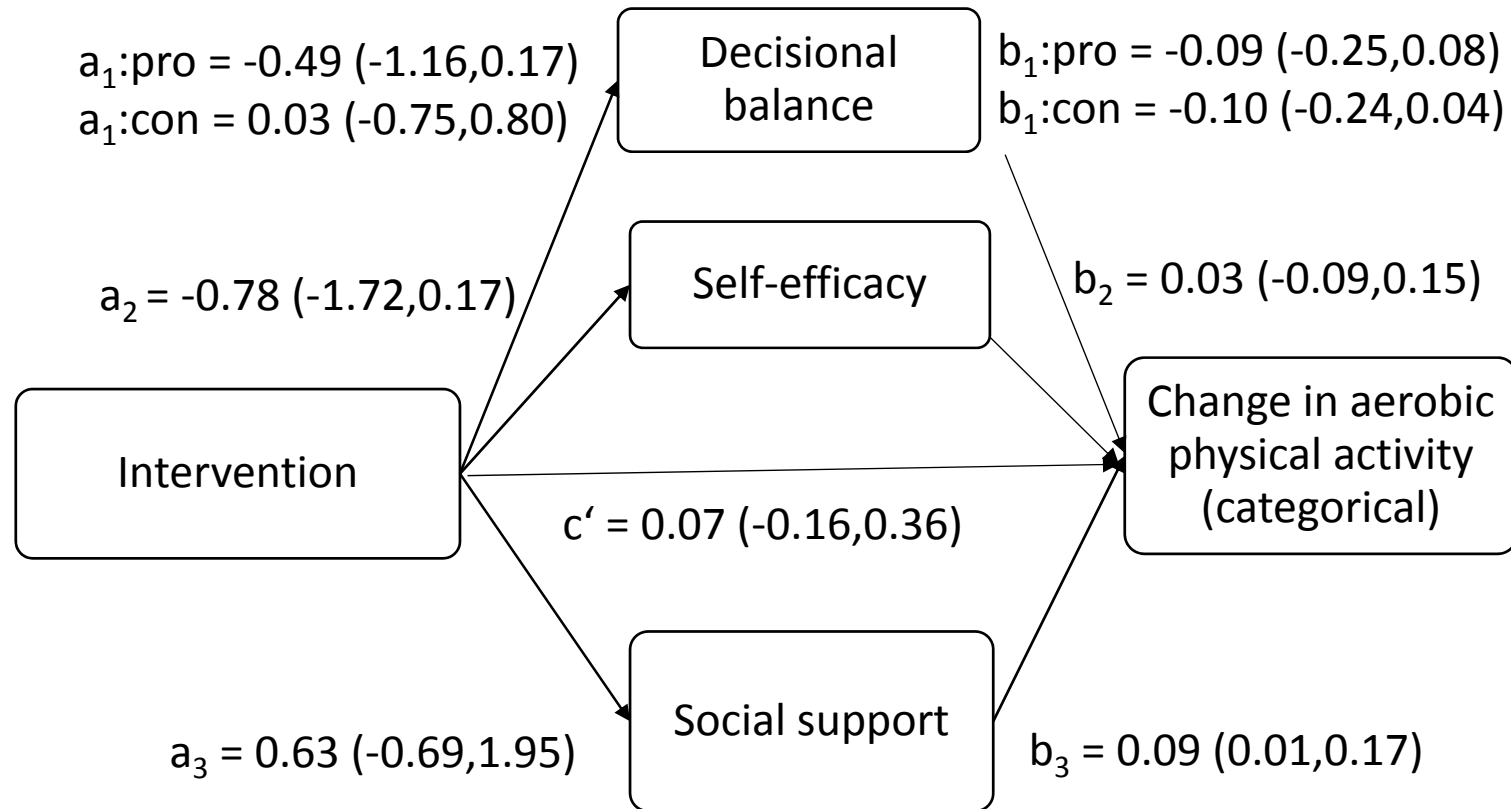
**Supplementary Fig. 10** Mediation of intervention effects on change in total diet quality by social support. Model coefficients  $a_1$ ,  $a_2$ , and  $a_3$  represent direct effects of the intervention on social support. Model coefficients  $b_1$ ,  $b_2$ , and  $b_3$  represent direct effects of social support on change in total quality. Model coefficient  $c'$  represents the indirect effect of social support on total diet quality.

### Mediation of Aerobic Physical Activity (continuous form)



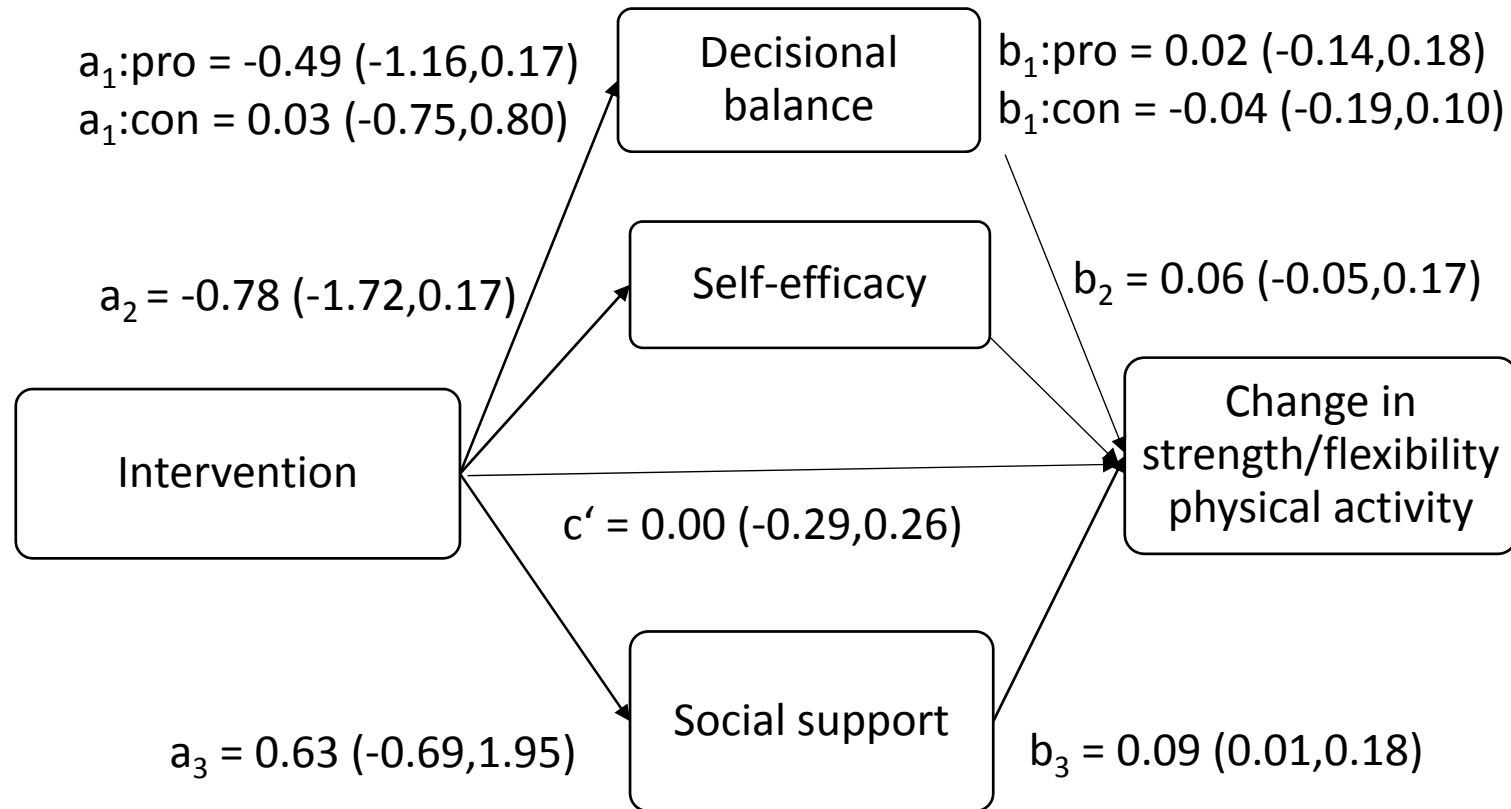
**Supplementary Fig. 11** Mediation of intervention effects on change aerobic physical activity by the psychosocial constructs. Model coefficients  $a_1$ ,  $a_2$ , and  $a_3$  represent direct effects of the intervention on the psychosocial constructs. Model coefficients  $b_1$ ,  $b_2$ , and  $b_3$  represent direct effects of the psychosocial constructs on change in aerobic physical activity. Model coefficient  $c'$  represents the indirect effect of the psychosocial constructs on aerobic physical activity.

### Mediation of Aerobic Physical Activity (suboptimal vs. optimal)



**Supplementary Fig. 12** Mediation of intervention effects on change aerobic physical activity by the psychosocial constructs. Model coefficients  $a_1$ ,  $a_2$ , and  $a_3$  represent direct effects of the intervention on the psychosocial constructs. Model coefficients  $b_1$ ,  $b_2$ , and  $b_3$  represent direct effects of the psychosocial constructs on change in aerobic physical activity. Model coefficient  $c'$  represents the indirect effect of the psychosocial constructs on aerobic physical activity.

### Mediation of Strength/Flexibility Physical Activity



**Supplementary Fig. 13** Mediation of intervention effects on change strength/flexibility physical activity by the psychosocial constructs. Model coefficients  $a_1$ ,  $a_2$ , and  $a_3$  represent direct effects of the intervention on the psychosocial constructs. Model coefficients  $b_1$ ,  $b_2$ , and  $b_3$  represent direct effects of the psychosocial constructs on change in strength/flexibility physical activity. Model coefficient  $c'$  represents the indirect effect of the psychosocial constructs on strength/flexibility physical activity.