

Immunosuppressant/Weight gain inhibitor

Compound derived from slime mold having immunosuppressive action and weight gain inhibitory action and its derivative

Overview

Previously, Ppc1, a small molecule compound derived from a cellular slime mold, was only known to inhibit the growth of cultured cells.

We have demonstrated that Ppc1 and its derivatives have inhibitory and uncoupling effects on IL-2 production.

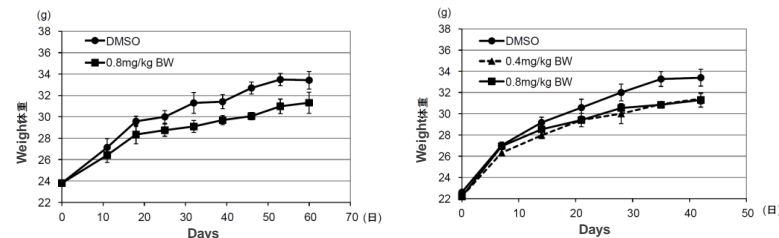
Effects of this group of compounds

- ❑ Suppression of IL-2 production (mouse Jurkat cells).
- ❑ Antibody production inhibition (in mice)
- ❑ Uncoupling activity in mitochondria. No effect on ATP production itself.
- ❑ Inhibitory effect on weight gain (in mice)
- ❑ Little cytotoxicity.

IP Data

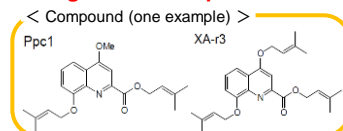
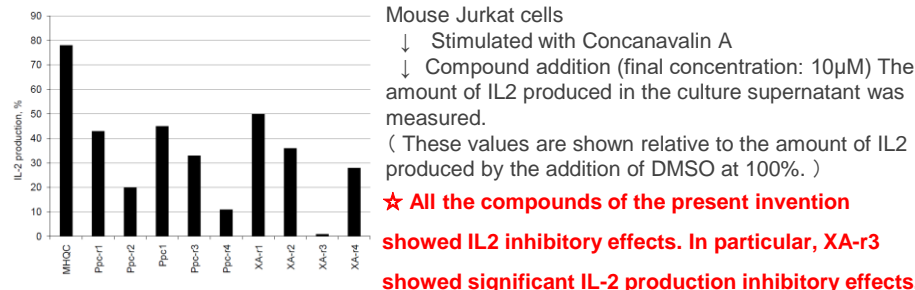
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 Admin No. : T12-045

Inhibitory effect of this compound on body weight gain (in mice)

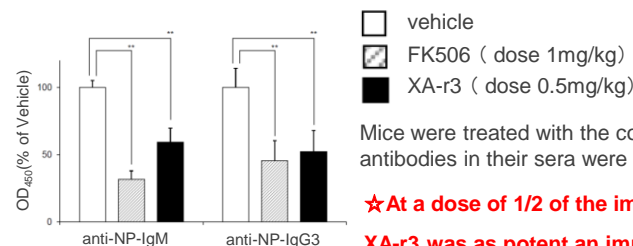


★Administration of this compound (Ppc-1 or XA-r3) to mice inhibited body weight gain.

Immunosuppressive effect (cell) of the present invention



Effect on antibody production (in mice)



Mice were treated with the compound, and the titers of antibodies in their sera were measured 1 week later.

★At a dose of 1/2 of the immunosuppressant FK506, XA-r3 was as potent an immunosuppressant as FK506.

Contact