

Immunosuppressant/Weight gain inhibitor

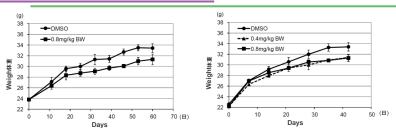
Compound derived from slime mold having Immunosuppressive action and weight gain inhibitory action and its derivative

Overview

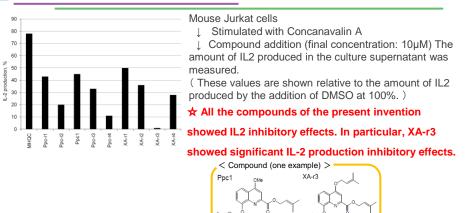
Previously, Ppc1, a small molecule compound derived from a cellular slime mold, was only known to inhibit the growth of cultured cells.

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

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



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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Effect on antibody production (in mice)

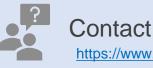
OD ₄₅₀ (%	anti-NP-IgM	anti-NP-IgG3	 At a dose of 1/2 of the immunosuppressant FK506, XA-r3 was as potent an immunosuppressant as
OD ₄₅₀ (% of Vehicle) 3	T		Mice were treated with the compound, and the titers of antibodies in their sera were measured 1 week later.
hicle)			 vehicle FK506 (dose 1mg/kg) XA-r3 (dose 0.5mg/kg)

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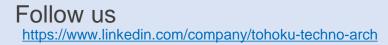




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