

Route	Dose (mg/kg)	C _{max} (mg/L)	t _{max} (h)	t _{1/2} (h)	AUC _{0-t} (mg/L·h)	V _c , V/F (L/kg)	Cl, Cl/F (L/h/kg)	F (%)
i.v.	5	4497.32	0.08	2.63	2161.38	8.98 (V)	2.32V (Cl)	31.69
p.o.	5	501.8	0.25	3.77	684.87	39.89 (V/F)	7.37 (Cl/F)	/

Treatment of arthritis: JAK3 covalent inhibitor-2 (60 mg/kg, p.o. once a day) in CIA model almost complete restoration of normal joint status is achieved, and no significant weight changes or other adverse effects are observed^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	ICR mice ^[1]
Dosage:	30 mg/kg
Administration:	p.o.
Result:	Showed significant anti-inflammatory activity by oral administration.

Animal Model:	C57BL/6 mice ^[1]
Dosage:	2 g/kg
Administration:	p.o.
Result:	Inhibited tumor growth. Livers and kidneys appeared to be similar to those of normal mice. No weight loss or other adverse effects were observed.

Animal Model:	SD rats ^[1]
Dosage:	5 mg/kg
Administration:	p.o.
Result:	JAK3 covalent inhibitor-2 had good intestinal absorption and oral bioavailability. Clearance rate (Cl) was 7.37 L/h/kg, oral half-life (t _{1/2} = 3.77 h), F = 31.69%

Animal Model:	CIA model mouse ^[1]
Dosage:	JAK3 covalent inhibitor-2 (30 mg/kg), JAK3 covalent inhibitor-2 (60 mg/kg), Tofacitinib HY-40354 (30 mg/kg)
Administration:	p.o.
Result:	JAK3 covalent inhibitor-2 group at 60 mg/kg histopathological analysis showed that the joint had returned to almost normal conditions.

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

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