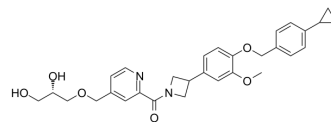


## JTE-952

Cat. No.:	HY-122906
CAS No.:	1255303-54-8
Molecular Formula:	C <sub>30</sub> H <sub>34</sub> N <sub>2</sub> O <sub>6</sub>
Molecular Weight:	518.6
Target:	c-Fms
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (192.83 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.9283 mL	9.6413 mL	19.2827 mL
5 mM	0.3857 mL	1.9283 mL	3.8565 mL
10 mM	0.1928 mL	0.9641 mL	1.9283 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

JTE-952 is a potent, oral active and selective Type II inhibitor of colony stimulating factor-1 receptor (CSF-1R or cFMS, type III receptor tyrosine kinase), with IC<sub>50</sub> values of 13 nM and 261 nM for CSF1R and TrkA, respectively. Effective against a mouse collagen-induced model of arthritis<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: 13 nM (CSF1R), 261 nM (TrkA)<sup>[1]</sup>.

#### In Vivo

JTE-952 (3 mg/kg, p.o. once-daily) treatment reduces the overall progression of the clinical score, including inflammation and bone erosion in mouse model of collagen-induced arthritis (CIA model)<sup>[1]</sup>.

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

Animal Model:	Mouse model of collagen-induced arthritis (CIA model) <sup>[1]</sup> .
Dosage:	3 mg/kg.
Administration:	Oral once-daily.

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Result:	Reduced the overall progression of the clinical score, including inflammation and bone erosion.
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## REFERENCES

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[1]. Ikegashira K, et al. Optimization of an azetidine series as inhibitors of colony stimulating factor-1 receptor (CSF-1R) Type II to lead to the clinical candidate JTE-952. Bioorg Med Chem Lett. 2019 Apr 1;29(7):873-877.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA