



	Applications:	In HEL and Ba/F3 cells with JAK2V617F mutation, TG101348 (SAR302503) inhibits cell proliferation with IC50 values of 300 nM and 420 nM, respectively. TG101348 also reduces STAT5 phosphorylation and induces apoptosis in a dose-dependent way.
In Vivo	<b>Animal experiment</b>	
	Animal models:	C57Bl/6 mice; C57BL/6 mice intravenously injected with whole bone marrow expressing JAK2V617F.
	Dosage form:	30, 100, and 200 mg/kg; 0.5, 1, 3, 5, 7, and 24 hr postdose; administered orally. 60 mg/kg, 120 mg/kg; oral gavage twice daily; from day 28 on for 42 days.
	Applications:	In C57Bl/6 mice, maximum plasma concentrations (Cmax) of TG101348 are 0.68, 3.58, and 4.28 µM at 3 h postdose at doses 30, 100, and 200 mg/kg, respectively. In mice with polycythemia vera induced by JAK2V617F, TG101348 reduces hematocrit by 5.1% and 17.9% at 60 mg/kg and 120 mg/kg, respectively. Also, TG101348 dose-dependently inhibits splenomegaly and polycythemia.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

## Product Citations

- Deng R, Zhang P, et al. "HDAC is indispensable for IFN-γ-induced B7-H1 expression in gastric cancer." Clin Epigenetics. 2018 Dec 11;10(1):153.PMID:30537988
- Quan Y, Xu H, et al. "JAK-STAT Signaling Pathways and Inhibitors Affect Reversion of Envelope-Mutated HIV-1." J Virol. 2017 Apr 13;91(9). pii: e00075-17.PMID:28202754

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## References

- [1]. Wernig G, Kharas MG, Okabe R, et al. Efficacy of TG101348, a selective JAK2 inhibitor, in treatment of a murine model of JAK2V617F-induced polycythemia vera. Cancer Cell, 2008, 13(4): 311-320.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for

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long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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