# Data Sheet (Cat.No.T10362)



### AR453588

## **Chemical Properties**

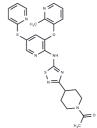
CAS No.: 1065609-00-8

Formula: C25H25N7O2S2

Molecular Weight: 519.64

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## **Biological Description**

Description	AR453588 is an orally bioavailable anti-diabetic glucokinase activator (EC50: 42 nM) with anti-hyperglycemic activity.
Targets(IC50)	Others
In vivo	AR453588 (3-30 mg/kg; p.o) lowers post-prandial glucose in normal C57BL/6J mice. AR453588 (3-30 mg/kg; p.o.; once-daily for 14 days) shows anti-hyperglycemic activity in a dose-ranging 14-day ob/ob mouse. AR453588 (10 mg/kg; p.o.) treatment shows that the Tmax, AUCinf, Vss, Cmax and F are 1.0 mL/min/kg, 4.65 h µg /mL, 1.67 µg /mL and 60.3%, respectively. AR453588 (1 mg/kg; i.v.) treatment shows that the CL, AUCinf, Vss, and t1/2 are 21.6 mL/min/kg, 0.77 h µg /mL, 0.746 L/kg and 1.28 hours, respectively.

### **Preparing Stock Solutions**

		1mg	5mg	10mg
Kako	1 mM	1.9244 mL	9.622 mL	19.2441 mL
	5 mM	0.3849 mL	1.9244 mL	3.8488 mL
	10 mM	0.1924 mL	0.9622 mL	1.9244 mL
	50 mM	0.0385 mL	0.1924 mL	0.3849 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

#### Reference

Hinklin RJ, et al. Discovery and preclinical development of AR453588 as an anti-diabetic glucokinase activator. Bioorg Med Chem. 2020 Jan 1;28(1):115232.

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Page 1 of 1 www.targetmol.com