## GDC-0834 Racemate

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Cat. No.:	HY-15427A		
CAS No.:	1133432-46	-8	
Molecular Formula:	C <sub>33</sub> H <sub>36</sub> N <sub>6</sub> O <sub>3</sub> S	5	
Molecular Weight:	596.74		
Target:	Btk		
Pathway:	Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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## SOLVENT & SOLUBILITY

Preparing Stock Solutions	Concentration	1 mg	5 mg	10 mg
	1 mM	1.6758 mL	8.3789 mL	16.7577 mL
	5 mM	0.3352 mL	1.6758 mL	3.3515 mL
	10 mM	0.1676 mL	0.8379 mL	1.6758 mL
Please refer to the so	lubility information to select the app	propriate solvent.		
	Stock Solutions	Stock Solutions 5 mM	Stock Solutions 5 mM 0.3352 mL	Stock Solutions         I mm         1.6758 mL         8.3789 mL           5 mM         0.3352 mL         1.6758 mL         1.6758 mL           10 mM         0.1676 mL         0.8379 mL

BIOLOGICAL ACTIV	
Description	GDC-0834 Racemate is the racemate form of GDC-0834, which is a potent and selective BTK inhibitor with in vitro IC50s of 5.9 and 6.4 nM in biochemical and cellular assays, respectively.IC50 value: 5.9 nM/6.4 nM(biochemical/cellular assay) [1]Target: BTKin vitro: GDC-0834 inhibited BTK with an in vitro IC(50) of 5.9 and 6.4 nM in biochemical and cellular assays, respectively, and in vivo IC(50) of 1.1 and 5.6 µM in mouse and rat, respectively [1].in vivo: Administration of GDC-0834 (30-100 mg/kg) in a rat collagen-induced arthritis (CIA) model resulted in a dose-dependent decrease of ankle swelling and reduction of morphologic pathology [1]. GDC-0834 exhibited low clearance in PXB chimeric mice with humanized liver. Uncertainty in human pharmacokinetic prediction and high interest in a BTK inhibitor for clinical evaluation prompted an investigational new drug strategy, in which GDC-0834 was rapidly advanced to a single-dose human clinical trial. GDC-0834 plasma concentrations in humans were below the limit of quantitation (<1 ng/ml) in most samples from the cohorts dosed orally at 35 and 105 mg [2].

- Mol Pharmacol. 2017 Mar;91(3):208-219.
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## REFERENCES

[1]. Liu L, et al. Antiarthritis effect of a novel Bruton's tyrosine kinase (BTK) inhibitor in rat collagen-induced arthritis and mechanism-based pharmacokinetic/pharmacodynamic modeling: relationships between inhibition of BTK phosphorylation and efficacy. J

[2]. Liu L, et al. Significant species difference in amide hydrolysis of GDC-0834, a novel potent and selective Bruton's tyrosine kinase inhibitor. Drug Metab Dispos. 2011 Oct;39(10):1840-9.

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

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