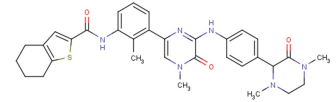


## Data Sheet (Cat.No.T11378L)

GDC-0834 Racemate

### Chemical Properties

CAS No.:	1133432-46-8
Formula:	C33H36N6O3S
Molecular Weight:	596.74
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



### Biological Description

Description	GDC-0834 Racemate is the racemate form of GDC-0834, which is an effective and selective BTK inhibitor
Targets(IC <sub>50</sub> )	Others: None
In vitro	GDC-0834 inhibited BTK (IC <sub>50</sub> s: 5.9 and 6.4 nM in biochemical and cellular assays) and (IC <sub>50</sub> s: 1.1 and 5.6 μM in mouse and rat) [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. 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].

### Solubility Information

Solubility	DMSO: 49 mg/mL (82.11 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.676 mL	8.379 mL	16.758 mL
5 mM	0.335 mL	1.676 mL	3.352 mL
10 mM	0.168 mL	0.838 mL	1.676 mL
50 mM	0.034 mL	0.168 mL	0.335 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

#### Reference

- 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 Pharmacol Exp Ther.* 2011 Jul;338(1):154-63.
- 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.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481