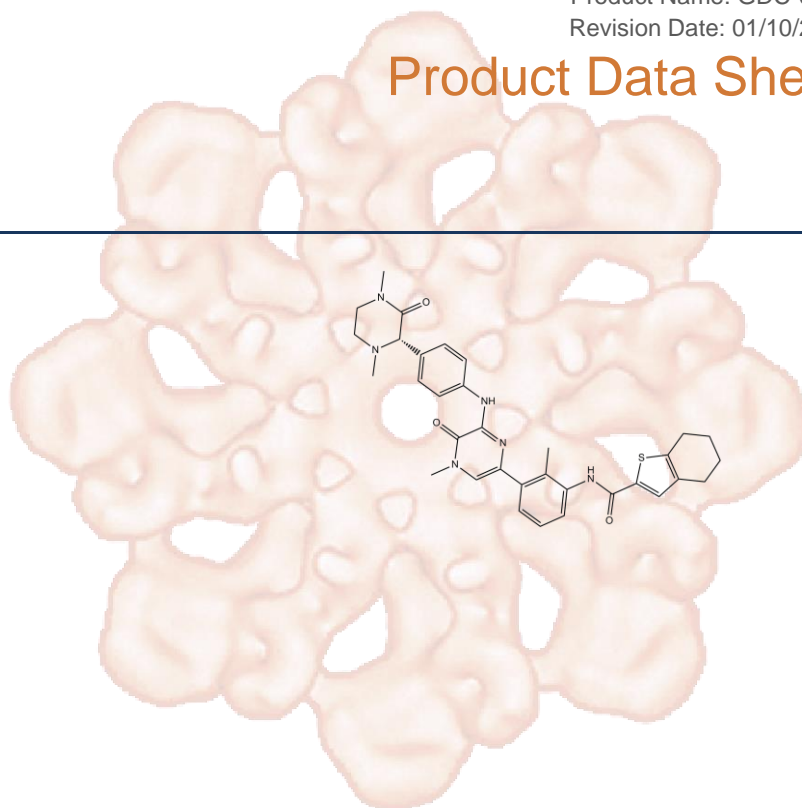


## GDC-0834

<b>Cat. No.:</b>	B3228
<b>CAS No.:</b>	1133432-50-4
<b>Formula:</b>	C33H36N6O3S
<b>M.Wt:</b>	596.74
<b>Synonyms:</b>	
<b>Target:</b>	
<b>Pathway:</b>	
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

Soluble in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	Mass		
		1mg	5mg	10mg
	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 solubility information to select the appropriate solvent.

## Biological Activity

Shortsummary

potent and selective BTK inhibitor

 IC<sub>50</sub> & Target

In Vitro

### Cell Viability Assay

Cell Line:	Rat splenocytes
Preparation method:	This compound is soluble in DMSO. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	Five hundred microliters of cell suspension (1×10 <sup>7</sup> cells/ml) was incubated with GDC-0834 for 1 h at 37°C, followed by stimulation with 3 µg/ml αIgM (final

	concentration) for 3 min.
Applications:	In the rat splenocytes, GDC-0834 suppressed pBTK activity with an IC50 value of $6.4 \pm 1.6$ nM with Hill slope value of $0.76 \pm 0.19$ .
<b>Animal experiment</b>	
Animal models:	Female arthritis Lewis rats
Dosage form:	Oral dosing of GDC-0834 [vehicle, 1, 3, 10, 30, and 100 mg/kg b.i.d. (twice daily) at 12-h intervals, vehicle, 10, 30, 100 mg/kg once daily (QD) at 24-h intervals, and 100 mg/kg every other day (Q2D) at 48 intervals] was initiated on day 0 of the study and continued through day 16.
Applications:	Treatment with GDC-0834 resulted in a significant reduction of the area under the ankle diameter-time curve in arthritis rat model.
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.

In Vivo

## Product Citations

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

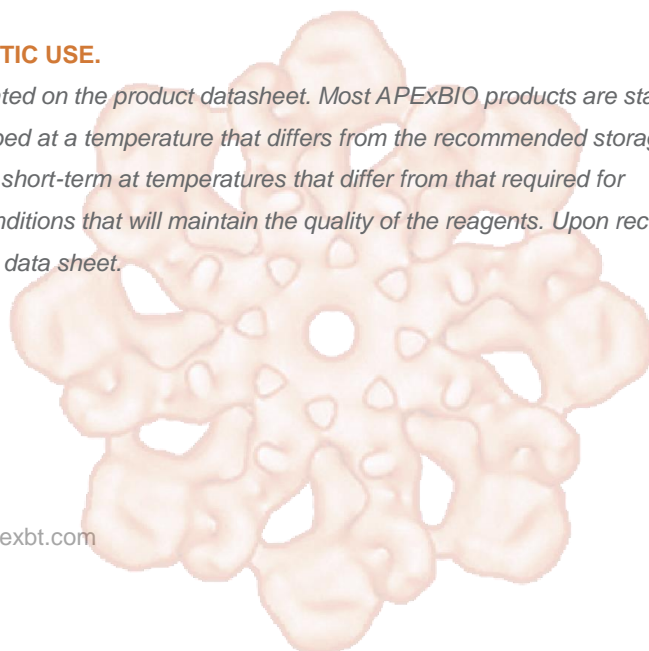
[1]. Liu L, Di Paolo J, Barbosa J, Rong H, Reif K, Wong H. Antiarthritis effect of a novel Bruton's tyrosine kinase (BTK) inhibitor in rat collagen-induced arthritis and mechanism-based pharmacokinetic/pharmacodynamic modeling: relationships between inhibition of BTK phosphorylation and efficacy. *J Pharmacol Exp Ther.* 2011;338(1):154–163.

## 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 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.*



**APEX BIO Technology**

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