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# **DATASHEET**

Ibrutinib

#### **Product overview**

 Name
 Ibrutinib

 Cat No
 HB4204

 Purity
 >98%

**Description** Potent, selective Bruton's tyrosine kinase (BTK) inhibitor.

## **Biological Data**

**Biological description** 

Potent and selective Bruton's tyrosine kinase (BTK) inhibitor. Orally bioavailable and irreversible inhibitor of BTK ( $IC_{50} = 0.5$  nM) with antineoplastic activity. Binds to and irreversibly inhibits BTK activity, preventing B cell activation and B cell-mediated signaling. This leads to an inhibition of the growth of malignant B cells that overexpress BTK. Shown to inhibit autophosphorylation of BTK ( $IC_{50} = 11$ nM), phosphorylation of PLCgamma ( $IC_{50} = 29$ nM), a substrate of BTK and phosphorylation of ERK ( $IC_{50} = 13$ nM).

## **Solubility & Handling**

Storage instructions Storage of solutions +4°C

Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

**Shipping Conditions** 

**Important** 

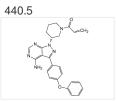
Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

### **Chemical Data**

Molecular Weight Chemical structure



**CAS Number Appearance** 

936563-96-1 White solid