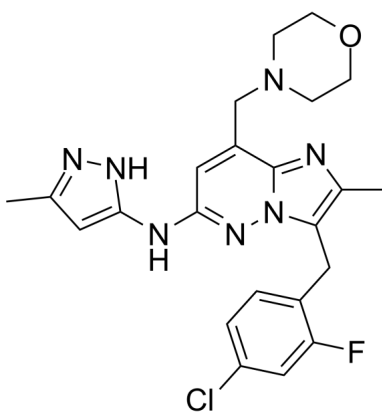


## Certificate of Analysis

Catalog Number	BP10270
Product Name	Gandotinib

## Physical and Chemical Properties

Synonyms	LY2784544
CAS No.	1229236-86-5
Chemical Formula	C <sub>23</sub> H <sub>25</sub> ClFN <sub>7</sub> O
Molecular Weight	469.95
Solubility	Ethanol: 9 mg/mL (19.15 mM) H <sub>2</sub> O: <1 mg/mL; DMSO: 87 mg/mL (185.1 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

## Product Information

Description	LY2784544(Gandotinib) is a potent JAK2 inhibitor (IC50: 3 nM), effective in JAK2V617F(Ki: 0.245 nM). The selectivity is higher 8- and 20-fold than JAK1 and JAK3.
Targets&IC50	JAK2: 3 nM, JAK2V617F: 0.245 nM(Ki)
In vitro	LY2784544 is dissolved in DMSO and stored, and then diluted with appropriate medium before use. Ba/F3 cells expressing JAK2V617F are placed in RPMI-1640-containing vehicle (DMSO) or LY2784544 (concentration range, 0.001-20 $\mu$ M) ( $1 \times 10^4$ cells/96-well). Ba/F3 cells expressing wild-type JAK2 are treated similarly except IL-3 (2 ng/mL) is added. After a 72-hour incubation, cell proliferation is assessed by adding Cell Titer 96 Aqueous One Solution Reagent (20 $\mu$ L/well). The IC50 for inhibition of cell proliferation is calculated using the GraphPad Prism 4 software.

## Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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