# Product Specification Sheet

**Product Name:** LY2784544  
**Catalog Number:** C5178

## Technical information:
- **Chemical Formula:** $C_{23}H_{25}ClFN_{7}O$  
- **CAS #:** 1229236-86-5  
- **Molecular Weight:** 469.94  
- **Purity:** > 98%  
- **Appearance:** White solid  
- **Solubility:** Soluble in DMSO up to 100 mM  
- **Chemical Name:** 3-(4-chloro-2-fluorobenzyl)-2-methyl-N-(3-methyl-1H-pyrazol-5-yl)-8-(morpholinomethyl)imidazo[1,2-b]pyridazin-6-amine  
- **Storage:** Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.  
- **Shelf Life:** In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.

## Handling:
- To make 10 mM stock solution, add 0.213mL of DMSO for each mg of LY2784544  
- For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

## Biological Activity:
LY-2784544 is an orally-available, imidazolopyridazine-based inhibitor of the JAK2-V617F mutation, the most common abnormality in Bcr-Abl-negative myeloid proliferative neoplasms. [1] Inhibition in Ba/F3 cells was found to be 55 nM. [2] Inhibition of wild-type JAK2 was minimal (IC50 = 2.3 uM), such that normal marrow function is not impeded. [2, 3]

Antiproliferation activity of LY-2784544 in JAK2-V617F-driven cells was shown to be 68 nM. [2]. In Ba/F3 xenografts, LY-2784544 inhibits STAT5 phosphorylation at an threshold effective dose (TED50) of 12.7 mg/kg. [2]

## Reference:

For Technical Support: [technical@cellagentech.com](mailto:technical@cellagentech.com)

*Chemicals are sold for research use only, not for clinical or diagnostic use.*