



Product Specification Sheet

Product Name: EPZ-6438

Catalog Number: C3764

Technical information:

Chemical Formula: $C_{34}H_{44}N_4O_4$

CAS #: 1403254-99-8

Molecular Weight: 572.74

Purity: > 98%

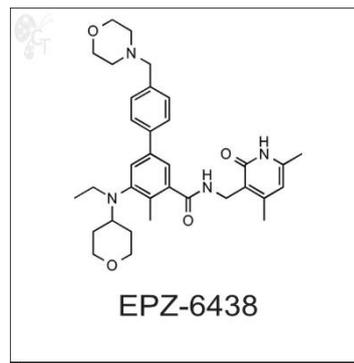
Appearance: Off-white solid

Solubility: Soluble in DMSO up to 10 mM

Chemical Name: N-[(1,2-dihydro-4,6-dimethyl-2-oxo-3-pyridinyl)methyl]-5-[ethyl(tetrahydro-2H-pyran-4-yl)amino]-4-methyl-4'-(4-morpholinylmethyl)-[1,1'-biphenyl]-3-carboxamide

Storage: For longer shelf life, store solid powder or DMSO solution at -20°C desiccated.

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 0.175mL of DMSO for each mg of EPZ-6438.
 - For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: EPZ-6438 is a potent, selective and orally bioavailable inhibitor of methyltransferase EZH2 with a Ki value of 2.5 nM. EPZ-6438 also shows a 35-fold selectivity versus EZH1 (IC50 392 nM) and >4,500-fold selectivity relative to 14 other histone methyltransferases (HMTs). [1] Oral dosing of EPZ-6438 leads to potent antitumor activity in a SMARCB1-deleted malignant rhabdoid tumor (MRT) xenograft model. [1]

EPZ-6438 is being studied in Phase III clinical trials in patients with diffuse large B-cell lymphoma [2] and relapsed/refractory synovial sarcoma [3].

- Reference:**
1. Knutson SK, et al. Durable tumor regression in genetically altered malignant rhabdoid tumors by inhibition of methyltransferase EZH2. Proc Natl Acad Sci U S A. 2013; 110(19):7922-7 Pubmed ID: 23620515
 2. <https://clinicaltrials.gov/ct2/show/NCT01897571> Pubmed ID: NCT01897571
 3. <https://clinicaltrials.gov/ct2/show/NCT02601950> Pubmed ID: NCT02601950

To reorder: <http://www.cellagentech.com/EPZ-6438/>

For Technical Support: technical@cellagentech.com

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