Product Specification Sheet

CP-868596 (Crenolanib) **Product Name:**

Catalog Number: C2786

Technical information:

 $C_{26}H_{29}N_5O_2$ Chemical Formula:

> CAS #: 670220-88-9

Molecular Weight: 443.54

Purity: > 98%

Appearance: White solid

Solubility: Soluble in DMSO up to 100 mM

Chemical Name: 1-(2-(5-((3-methyloxetan-3-yl)methoxy)-1H-benzo[d]imidazol-1-yl)quinolin-8-yl)piperidin-4-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 0.225mL of DMSO for each mg of CP-868596 (Crenolanib)

• For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity:

CP868596 (Crenolanib) is an orally-available, benzimidazole-based inhibitor of PDGFRa and PDGFRb with IC50 values of 0.9 and 1.8 nM, respectively. Furthermore, CP868596 is active against the D842V mutant of PDGFRa, inhibiting phosphorylation at an IC50 range of 10-30 nM (wild-type PDGFRa IC50 = 10 nM). [1] Whereas imatinib, sunitinib, sorafenib, and nilotinib have little to no activity vs. this D842V mutant, CP868596 offers a novel therapy to GIST patients with this resistance.

CP868596

(Crenolanib)

CP868596 also shows potency (IC50 = 80 nM) against the highly sensitive H1703 cell line, suggesting single-agent therapy potential for PDGFR-driven NSCLC tumors. [2]

- Reference: 1. "Crenolanib (CP-868,596), a Highly Potent PDGFR Inhibitor, Inhibits Phosphorylation of the Imatinib-Resistant PDGFRa (D842V) Activating Mutation Associated with Advanced GIST" AROG Pharmaceuticals and Oregon Health & Science University, AACR poster, 2011, Abstract 3586.
 - 2. "Crenolanib (CP-868,596), a highly potent and selective PDGFR TKI inhibits growth of PDGFRα-driven lung cancer cells" AROG Pharmaceuticals and Southwestern Medical Center, AACR poster, 2011, Abstract 3601.

http://www.cellagentech.com/CP-868596-Crenolanib/ To reorder:

For Technical Support: technical@cellagentech.com

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