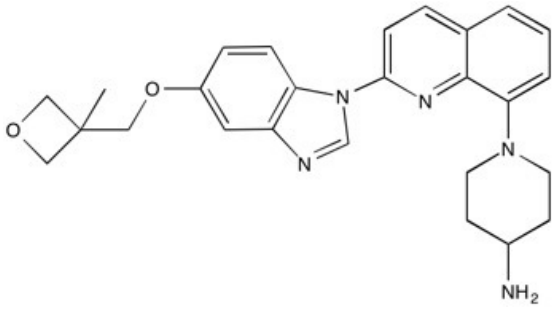
Tribioscience

# Crenolanib, PDGFR and FLT3 inhibitor

| Catalog | Unit |
|---|---|
| TBI4782-5MG | 5 mg |
| TBI4782-25MG | 25 mg |

## Product Details



**Formal Name:** 1-[2-[5-[(3-Methyloxetan-3-yl)methoxy]benzimidazole-1-yl]quinoline-8-yl]piperidin-4-amine
**Alternate Names:** CP-868,596
**Molecular Formula:** $C_{26}H_{29}N_5O_2$
**Formula Weight:** 443.55
**CAS Number:** 670220-88-9
**Purity:** >97%
**Formulation:** powder
**Solubility:** Soluble in DMSO (up to 15 mg/ml) or in Ethanol (up to 10 mg/ml)
**Storage:** -20°C
**Stability:** ≥ 1 year.

## Applications

PDGFR and FLT3 inhibitor

## Functions

Crenolanib is a potent inhibitor of PDGFR (Kd for α = 2.1 nM; ß = 3.2 nM) and FLT3 (Kd = 0.74 nM). Crenolanib is a type I inhibitor binding only to the active kinase conformation. It showed potent activity against imatinib-resistant PDGFRα mutations D842I, D842V, D842Y, DI842-843M, and deletion I843 as well as FLT3/ITD and FLT3/D835 mutants. Crenolanib acted synergistically with FLT3-CAR T-cells in a FLT3-ITD+ AML murine xenograft model.

## Application Procedures

First dissolved in DMSO (up to 15 mg/ml) or in Ethanol (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 1 month.

**For research use only.**

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