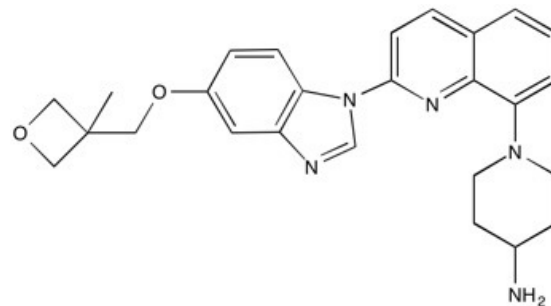


Catalog	Unit
TBI4782-5MG	5 mg
TBI4782-25MG	25 mg

### 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<sub>26</sub>H<sub>29</sub>N<sub>5</sub>O<sub>2</sub>  
**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 (K<sub>d</sub> for α = 2.1 nM; β = 3.2 nM) and FLT3 (K<sub>d</sub> = 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, D842E, D842N, D842G, D842K, D842R, D842L, D842M, D842T, D842A, D842S, D842F, D842C, D842H, D842Q, D842W, D842X, D842Y, D842Z, D842AA, D842AB, D842AC, D842AD, D842AE, D842AF, D842AG, D842AH, D842AI, D842AJ, D842AK, D842AL, D842AM, D842AN, D842AO, D842AP, D842AQ, D842AR, D842AS, D842AT, D842AU, D842AV, D842AW, D842AX, D842AY, D842AZ, D842BA, D842BB, D842BC, D842BD, D842BE, D842BF, D842BG, D842BH, D842BI, D842BJ, D842BK, D842BL, D842BM, D842BN, D842BO, D842BP, D842BQ, D842BR, D842BS, D842BT, D842BU, D842BV, D842BW, D842BX, D842BY, D842BZ, D842CA, D842CB, D842CC, D842CD, D842CE, D842CF, D842CG, D842CH, D842CI, D842CJ, D842CK, D842CL, D842CM, D842CN, D842CO, D842CP, D842CQ, D842CR, D842CS, D842CT, D842CU, D842CV, D842CW, D842CX, D842CY, D842CZ, D842DA, D842DB, D842DC, D842DD, D842DE, D842DF, D842DG, D842DH, D842DI, D842DJ, D842DK, D842DL, D842DM, D842DN, D842DO, D842DP, D842DQ, D842DR, D842DS, D842DT, 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### 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.

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