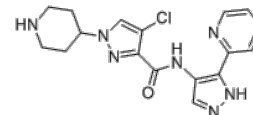


**Product Name** : BDP5290  
**Cat. No.** : PC-63524  
**CAS No.** : 1817698-21-7  
**Molecular Formula** : C<sub>17</sub>H<sub>18</sub>ClN<sub>7</sub>O  
**Molecular Weight** : 371.829  
**Target** : ROCK  
**Solubility** : 10 mM in DMSO



### Biological Activity

BDP5290 (BDP00005290) is a potent myotonic dystrophy kinase-related CDC42-binding kinase (**MRCK**) inhibitor with K<sub>i</sub> of 10/4 nM for MRCK $\alpha$ / $\beta$ , respectively.

BDP5290 exhibits 86 and 46-fold in vitro selectivity for MRCK $\beta$  over ROCK1 and ROCK2; demonstrates marked selectivity for MRCK $\beta$  over ROCK1 or ROCK2 for inhibition of myosin II light chain (MLC) phosphorylation in cells;

BDP5290 blocks MLC phosphorylation at both cytoplasmic actin stress fibres and peripheral cortical actin bundles.

BDP5290 strongly inhibits the invasion of human SCC12 squamous cell carcinoma cells at 2  $\mu$ M.

### References

Unbekandt M, et al. *Cell Commun Signal*. 2014 Oct 5;12:54.

Unbekandt M, et al. *Cancer Res*. 2018 Apr 15;78(8):2096-2114.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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