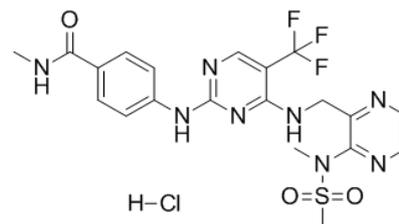


**Product Name** : Defactinib hydrochloride  
**Cat. No.** : PC-42952  
**CAS No.** : 1073160-26-5  
**Molecular Formula** : C<sub>20</sub>H<sub>22</sub>ClF<sub>3</sub>N<sub>8</sub>O<sub>3</sub>S  
**Molecular Weight** : 546.9537  
**Target** : Focal Adhesion Kinase (FAK)  
**Solubility** : 10 mM in DMSO



## Biological Activity

Defactinib (VS-6063, PF-04554878) hydrochloride is a potent, selective and orally active **FAK** inhibitor, inhibits pFAK (Tyr397) in a dose-dependent manner in cancer cell lines.

Defactinib shows no statistically significant changes in FAK phosphorylation at the other residues (Tyr 576/577, Tyr 925, or Tyr 861), also inhibits Pyk2 Tyr402 phosphorylation in HeyA8 cells.

Defactinib markedly decreases proliferation and increases apoptosis combined with paclitaxel, reduces levels of AKT and YB-1 in taxane-resistant cell lines.

Defactinib significantly reduces tumor growth, synergized with the mTOR inhibitor everolimus in xenograft models of pancreatic tumor.

## References

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Jones SF, et al. Invest New Drugs. 2015 Oct;33(5):1100-7.  
François RA, et al. J Natl Cancer Inst. 2015 May 12;107(8). pii: djv123.

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

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