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## Product Datasheet

### PF-670462 dihydrochloride, CAS [[950912-80-8]] FBM-10-4692

|                            |  |
|----------------------------|--|
| Article Name               | PF-670462 dihydrochloride, CAS [[950912-80-8]]   |
| Biozol Catalog Number      | FBM-10-4692  |
| Supplier Catalog Number    | 10-4692  |
| Alternative Catalog Number | FBM-10-4692-5MG,FBM-10-4692-25MG   |
| Manufacturer               | Focus Biomolecules   |
| Category                   | Biochemikalien   |
| Product Description        | Casein kinase 1delta/epsilon inhibitor...  |
| Molecular Weight           | 337.40   |
| Purity                     | >98% by HPLC, NMR (Conforms)   |
| Form                       | Off-white solid  |
| CAS Number                 | [950912-80-8]  |
| Formula                    | C19H22Cl2FN5   |
| Application Notes          | Potent inhibitor of casein kinase 1epsilon/delta (CK1epsilon, IC50 = 7.7 nM, CK1delta, IC50 = 14 nM). <sup>1</sup> It is a circadian clock modifier that caused robust phase delays in rats <sup>1</sup> and Cynomolgus monkeys <sup>2</sup> . PF-670462 caused nuclear retention of the clock protein PER resulting in period lengthening in a phase-specific manner that was dependent on CK1delta inhibition and not CK1epsilon. <sup>3</sup> It improved cognitive performance and reduced amyloid load in various mouse models of Alzheimers disease. <sup>4-6</sup> PF-670462 slowed the progression of and increased survival of chronic lymphocytic leukemia in mice alone and in combination with Ibrutinib. <sup>7</sup> |