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## Product Datasheet

### **BX-795, CAS [[702675-74-9]] FBM-10-4677**

|                            |   |
|----------------------------|---|
| Article Name               | BX-795, CAS [[702675-74-9]]   |
| Biozol Catalog Number      | FBM-10-4677   |
| Supplier Catalog Number    | 10-4677   |
| Alternative Catalog Number | FBM-10-4677-5MG,FBM-10-4677-25MG  |
| Manufacturer               | Focus Biomolecules  |
| Category                   | Biochemikalien  |
| Product Description        | Dual TBK1/IKKepsilon inhibitor - enhances lentiviral transduction efficiency... |
| Molecular Weight           | 591.47  |
| Purity                     | >97% by HPLC NMR (Conforms)   |
| Form                       | Off-white solid   |
| CAS Number                 | [702675-74-9]   |
| Formula                    | C23H26IN7O2S  |

Application Notes

BX795, originally described as a moderately potent inhibitor of PDK1 (IC<sub>50</sub> = 111 nM)<sup>1</sup>, is, more importantly, a dual inhibitor of TBK1 and IKKepsilon (IC<sub>50</sub>s = 6 and 41 nM respectively)<sup>2</sup>. TBK1 and IKKepsilon regulate the production of Type I interferons during bacterial and viral infection via phosphorylation of the transcription factor IRF3. It also inhibited of MARK, MLK, NUA1, AurB, and ERK8.<sup>3</sup> BX795 exhibited antitumor activity in human oral squamous cell carcinoma<sup>4</sup>, pancreatic ductal adenocarcinoma<sup>5</sup>, and Glioblastoma Multiforme<sup>6</sup>. BX795 has been used to enhance lentiviral transduction efficiency in human NK cells<sup>7-9</sup> and human primary T cells<sup>10</sup> for CAR-T cell therapy.