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## Product Datasheet

### ZJ43, CAS [[723331-20-2]] FBM-10-3904

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| Article Name               | ZJ43, CAS [[723331-20-2]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Biozol Catalog Number      | FBM-10-3904                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Supplier Catalog Number    | 10-3904                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Alternative Catalog Number | FBM-10-3904-5MG,FBM-10-3904-25MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Manufacturer               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Category                   | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Product Description        | Potent inhibitor glutamate carboxypeptidases II and III...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Molecular Weight           | 304.30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Purity                     | 98% by HPLC NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Form                       | White solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| CAS Number                 | [723331-20-2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Formula                    | C12H20N2O7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Application Notes          | <p>ZJ43 is potent inhibitor of glutamate carboxypeptidases II (<math>K_i = 0.8</math> nM) and III (<math>K_i = 23</math> nM).<sup>1</sup> It blocks MDA-MB-468 cell growth with an <math>IC_{50} = 3.4</math> nM without effecting normal cells.<sup>1</sup> It potently (<math>IC_{50} = 2.4</math> nM) inhibited the ability of glutamate carboxypeptidase II to hydrolyze the neurotransmitter N-acetylaspartylglutamate (NAAG) resulting in an increase in synaptic levels of group II mGluRs. Peripherally administered ZJ43 increased the activation of mGluR3 by NAAG released from peripheral sensory neurites resulting in analgesia.<sup>2,3</sup> ZJ43 has also shown efficacy in other inflammatory pain models.<sup>4,5</sup></p> |