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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 ($K_i = 0.8$ nM) and III ($K_i = 23$ nM).¹ It blocks MDA-MB-468 cell growth with an $IC_{50} = 3.4$ nM without effecting normal cells.¹ It potently ($IC_{50} = 2.4$ 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.^{2,3} ZJ43 has also shown efficacy in other inflammatory pain models.^{4,5}</p> |