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Product Datasheet

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

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	C ₁₂ H ₂₀ N ₂ O ₇
Application Notes	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}