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Product Datasheet

ZJ43, CAS [[723331-20-2]]

FBM-10-3904

Artikelname	ZJ43, CAS [[723331-20-2]]
Artikelnummer	FBM-10-3904
Hersteller Artikelnummer	10-3904
Alternativnummer	FBM-10-3904-5MG,FBM-10-3904-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	Potent inhibitor glutamate carboxypeptidases II and III...
Molekulargewicht	304.30
Reinheit	98% by HPLC NMR (Conforms)
Formulierung	White solid
CAS Nummer	[723331-20-2]
Formel	C12H20N2O7
Anwendungsbeschreibung	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}