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Product Datasheet

QNZ, CAS [[545380-34-5]] FBM-10-4009

Article Name	QNZ, CAS [[545380-34-5]]
Biozol Catalog Number	FBM-10-4009
Supplier Catalog Number	10-4009
Alternative Catalog Number	FBM-10-4009-5MG,FBM-10-4009-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	NFkB inhibitor / Store-operated calcium entry...
Molecular Weight	356.42
Purity	98% by HPLC NMR (Conforms)
Form	Pale yellow solid
CAS Number	[545380-34-5]
Formula	C22H20N4O

Application Notes	QNZ was originally described as a potent inhibitor of NF-κB activation (IC_{50} = 11 n) and TNF- production (IC_{50} = 7 nM).^{1,2} It indirectly inhibits the NF-κB pathway via inhibition of store-operated calcium entry (SOC) and displayed neuroprotective effects in transgenic fly and mouse models of Huntingtons disease.^{3,4} Its target has been postulated to be heteromeric calcium channels containing TRPC1 as one of the subunits.⁴ QNZ reduced synaptic neuronal SOC and rescued dendritic spine loss in YAC128 striatal medium spiny neurons.⁵ QNZ has also been identified as a potent (IC_{50} = 25 nM complex 1 from <i>Y.lipolytica</i>, IC_{50} = 14 nm complex 1 from <i>Bos Taurus</i> heart mitochondria) and selective inhibitor of mitochondrial complex I.⁶ QNZ decreased PSEN1ΔE9-mediated nSOCE upregulation and rescued mushroom spines in PSEN1ΔE9-expressing neurons, which are linked to familial Alzheimers disease.⁷
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