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Product Datasheet

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

Artikelname	QNZ, CAS [[545380-34-5]]
Artikelnummer	FBM-10-4009
Hersteller Artikelnummer	10-4009
Alternativnummer	FBM-10-4009-5MG,FBM-10-4009-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	NFkB inhibitor / Store-operated calcium entry...
Molekulargewicht	356.42
Reinheit	98% by HPLC NMR (Conforms)
Formulierung	Pale yellow solid
CAS Nummer	[545380-34-5]
Formel	C22H20N4O

Anwendungsbeschreibung	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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