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Product Datasheet

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

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| 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- κ B activation (IC₅₀ = 11 n) and TNF- production (IC₅₀ = 7 nM).^{1,2} It indirectly inhibits the NF- κ B 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 (IC₅₀ = 25 nM complex 1 from *Y.lipolytica*, IC₅₀ = 14 nm complex 1 from *Bos Taurus* heart mitochondria) and selective inhibitor of mitochondrial complex I.⁶ QNZ decreased PSEN1 Δ E9-mediated nSOCE upregulation and rescued mushroom spines in PSEN1 Δ E9-expressing neurons, which are linked to familial Alzheimers disease.⁷