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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	<p>QNZ was originally described as a potent inhibitor of NF-<math>\kappa</math>B activation (<math>IC_{50}</math> = 11 n) and TNF- production (<math>IC_{50}</math> = 7 nM).<sup>1,2</sup> It indirectly inhibits the NF-<math>\kappa</math>B pathway via inhibition of store-operated calcium entry (SOC) and displayed neuroprotective effects in transgenic fly and mouse models of Huntingtons disease.<sup>3,4</sup> Its target has been postulated to be heteromeric calcium channels containing TRPC1 as one of the subunits.<sup>4</sup> QNZ reduced synaptic neuronal SOC and rescued dendritic spine loss in YAC128 striatal medium spiny neurons.<sup>5</sup> QNZ has also been identified as a potent (<math>IC_{50}</math> = 25 nM complex 1 from <i>Y.lipolytica</i>, <math>IC_{50}</math> = 14 nm complex 1 from <i>Bos Taurus</i> heart mitochondria) and selective inhibitor of mitochondrial complex I.<sup>6</sup> QNZ decreased PSEN1<math>\Delta</math>E9-mediated nSOCE upregulation and rescued mushroom spines in PSEN1<math>\Delta</math>E9-expressing neurons, which are linked to familial Alzheimers disease.<sup>7</sup></p>
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