BQCA

Acetylcholine receptor activator

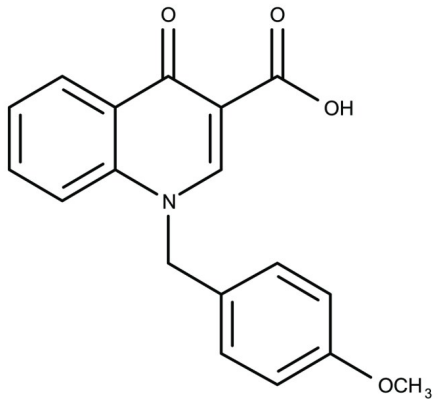
Highly selective allosteric potentiator of the M_1 muscarinic acetylcholine receptor (mAChR). Reduces the concentration of ACh required to activate M_1 up to 129-fold and displays no potentiation, agonism or antagonism activity at other mAChRs at concentrations up to 100μM. Reverses scopolamine-induced memory deficits and increases blood flow to the cerebral cortex in mouse models. M_1 activators slow the progression of Alzheimers disease. Induces β-arrestin recruitment to M_1. At 100μM, it activated M_1 in the absence of ACh to ca. 50% maximal response. At 10μM, it reduced the concentration of ACh required to displace radioligand by 45-fold. *In vivo* experiments were carried out in mice at 15 or 20mg/kg. The compound is cell permeable, brain penetrant and orally active.

Citations: 3 View Online »

Ordering Information Order Online »

BML-C121-0010	10mg
BML-C121-0050	50mg

Manuals, SDS & CofA View Online »

O
O
OH
N
OCH3

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stable for at least 1 year after receipt when stored at room temperature. Stock solutions are stable for for up to 3 months at -20°C.
Long Term Storage	Ambient
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	1-(4-Methoxybenzyl)-4-oxo-1,4-dihydro-3-quinoline carboxylic acid, Benzyl quinolone carboxylic acid
Appearance	White solid.
CAS	338747-41-4
Couple Target	Acetylcholine receptor
Couple Type	Activator
Formula	$C_{18}H_{15}NO_4$
MW	309.3
Purity	≥97% (HPLC)
Solubility	Soluble in DMSO (10mg/ml).
Source	Synthetic.

Last modified: May 29, 2024

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