# BQCA

## Acetylcholine receptor activator

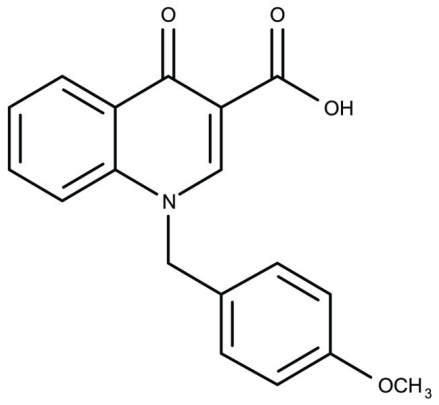
Highly selective allosteric potentiator of the $M_1$ muscarinic acetylcholine receptor (mAChR). Reduces the concentration of ACh required to activate $M_1$ up to 129-fold and displays no potentiation, agonism or antagonism activity at other mAChRs at concentrations up to 100μM. Reverses scopolamine-induced 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

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|---|---|
| **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. |

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