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DATASHEET

MOMBA

Product overview

Name MOMBA Cat No HB7626 **Biological action** Agonist >98% **Purity**

Description Newly identified, highly selective FFA2-DREADD agonist

Biological Data

Biological description

Newly identified, highly selective FFA2-DREADD agonist which acts as a selective orthostatic agonist at the engineered hFFA2 (human free fatty acid2)-DREADD receptor and shows no activity at wild-type hFFA2, hFFA3 or mouse FFA2 receptors. Displays improved potency and comparable efficacy to the alternative hFFA2-DREADD activator sorbic acid in hFFA2-DREADD transgenic mice. In cells expressing the hFFA2-DREADD receptor, MOMBA inhibits forskolin-induced cAMP levels, reduces gut transit and induces a FFA2 specific concentration dependent release of GLP-in colonic crypts and GLP-1 and PYY secretion in intact colon. Active in vivo and orally bioavailable.

Solubility & Handling

Solubility overview Storage instructions Soluble in DMSO (100 mM), and in ethanol (100 mM)

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions

Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

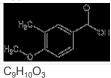
Chemical Data

Chemical name Molecular Weight Chemical structure 4-Methoxy-3-methylbenzoic acid

166.2

6880-04-2

2759583



Molecular Formula **CAS Number PubChem identifier SMILES**

CC1=C(C=CC(=C1)C(=O)O)OC

InChi InChl=1S/C9H10O3/c1-6-5-7(9(10)11)3-4-8(6)12-2/h3-5H,1-2H3,(H,10,11)

DNMUMZLKDOZMEY-UHFFFAOYSA-N

MDL number MFCD00270114

InChiKev

Chemogenetics defines a short-chain fatty acid receptor gut-brain axis.

Barki N et al (2022) eLife 11

PubMedID 35229717

Chemogenetics of cell surface receptors: beyond genetic and pharmacological approaches.

Miura Y et al (2022) RSC chemical biology 3 **PubMedID** 35359495

P273 Chemogenetic analysis of how receptors for short chain fatty acids regulate the gut-brain axis

Barki et al (2020) BMJ Gut - Posters nutrition 70