

Product Data Sheet

Product Name: VU 0357121

Cat. No.: GC18087

Chemical Properties

Cas. No. 433967-28-3

Chemical Name 4-butoxy-N-(2,4-difluorophenyl)benzamide

SMILES CCCCOC1=CC=C(C=C1)C(=O)NC2=C(C=C(C=C2)F)F

Formula C₁₇H₁₇F₂NO₂ M.Wt 305.32

Solubility DMF: 20 mg/ml, DMF:PBS (pH 7.2) (1:3): 0.25 mg/ml, DMSO: 15 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

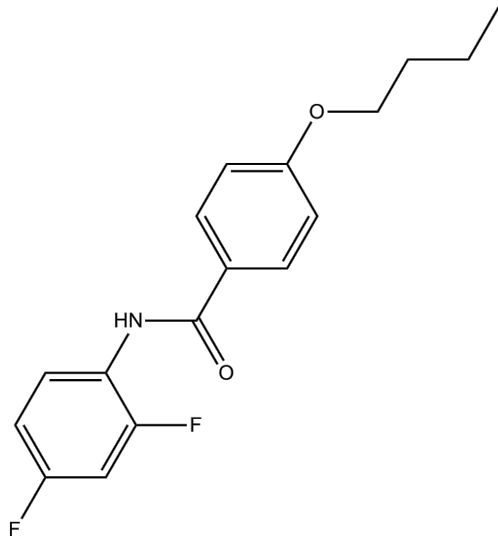
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

VU0357121 is a novel positive and highly selective allosteric modulator (PAM) of mGlu5R with EC50 of 33 nM. IC50 Value: 33 nM (EC50) Target: mGluR5 in vitro: VU0357121 do not bind at the MPEP allosteric site of mGlu5, thus do not possess mGlu5 NAM activity. The A809V/rmGlu5 mutation inhibited the ability of VU0357121 to shift the glutamate concentration response curve, whereas the response to VU0357121 is not altered by the F585I/rmGlu5 mutation. VU0357121 show weaker cooperativity in the Ca²⁺ mobilization assay in the low-expressing HEK293A-mGlu5 cell line. in vivo:

References:

[1]. Hammond, Alexis S.; Rodriguez, Alice L.; Townsend, Steven D. et al. Discovery of a Novel

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Chemical Class of mGlu5 Allosteric Ligands with Distinct Modes of Pharmacology. ACS Chemical Neuroscience (2010), 1(10), 702-716.

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