

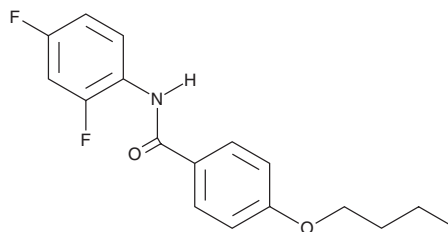
# PRODUCT INFORMATION



**VU0357121**

Item No. 22199

**CAS Registry No.:** 433967-28-3  
**Formal Name:** 4-butoxy-N-(2,4-difluorophenyl)-benzamide  
**MF:** C<sub>17</sub>H<sub>17</sub>F<sub>2</sub>NO<sub>2</sub>  
**FW:** 305.3  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 262 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

## Laboratory Procedures

VU0357121 is supplied as a crystalline solid. A stock solution may be made by dissolving the VU0357121 in the solvent of choice, which should be purged with an inert gas. VU0357121 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). The solubility of VU0357121 in these solvents is approximately 15 and 20 mg/ml, respectively.

VU0357121 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, VU0357121 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. VU0357121 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

## Description

VU0357121 is a positive allosteric modulator of metabotropic glutamate receptor 5 (mGluR5) that has an EC<sub>50</sub> value of 33 nM for the rat receptor expressed in HEK293 cells in a calcium flux assay.<sup>1</sup> It is selective for mGluR5 and does not modulate responses at mGluR2-4 or mGluR6-8 but does inhibit mGluR1.

## Reference

1. Hammond, A.X., Rodriguez, A.L., Townsend, S.D., *et al.* Discovery of a novel chemical class of mGlu<sub>5</sub> allosteric ligands with distinct modes of pharmacology. *ACS Chem. Neurosci.* **1**(10), 702-716 (2010).

### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

### WARRANTY AND LIMITATION OF REMEDY

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