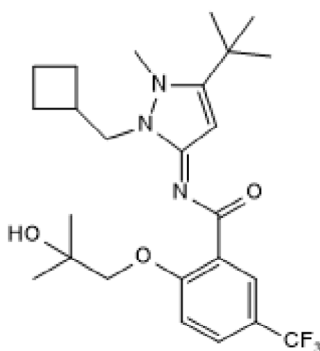


Product Name: RNB 61 **Catalog No.:** 8835 **Batch No.:** 1
CAS Number: 1217403-51-4
IUPAC Name: *N*-[(3*E*)-5-*tert*-Butyl-2-(cyclobutylmethyl)-1-methyl-1,2-dihydro-3*H*-pyrazol-3-ylidene]-2-(2-hydroxy-2-methylpropoxy)-5-(trifluoromethyl)benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₃₄F₃N₃O₃.
Batch Molecular Weight: 481.56
Physical Appearance: White crystalline solid
Solubility: DMSO to 50 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.35	7.12	8.73
Found	62.43	7.18	8.71

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Name: RNB 61

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Description:

RNB 61 is a highly potent and selective cannabinoid CB2 receptor (CB2R) agonist (K_i = 0.57 nM). RNB 61 shows >5000-fold selectivity for hCB2R over hCB1R. In vivo, RNB 61 inhibits the FSK-induced cAMP formation on mouse, rat, and dog CB2Rs (EC₅₀ values ranging from 0.13 to 1.86 nM).

Physical and Chemical Properties:

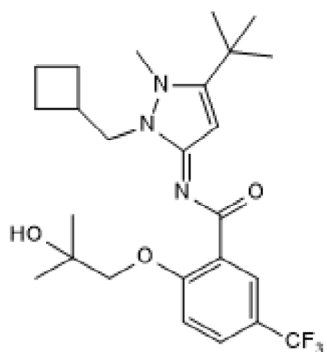
Batch Molecular Formula: C₂₅H₃₄F₃N₃O₃.

Batch Molecular Weight: 481.56

Physical Appearance: White crystalline solid

Minimum Purity: ≥97%

Batch Molecular Structure:



References:

Chicca *et al* (2024) A highly potent, orally bioavailable pyrazole-derived cannabinoid CB2 receptor- selective full agonist for *in vivo* studies. *ACS Pharmacol.Transl.Sci.* **7** 2424. PMID: 39144568.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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