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Print Date: Feb 19th 2024

Certificate of Analysis

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Product Name: FTBMT

Catalog No.: 6784 Ba

Batch No.: 4

CAS Number: IUPAC Name: 1358575-02-6

4-[3-[[3-Fluoro-5-(trifluoromethyl)phenyl]methyl]-5-methyl-1H-1,2,4-triazol-1-yl]-2-methylbenzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C₁₉H₁₆F₄N₄O. 392.35 Off White solid DMSO to 100 mM ethanol to 50 mM Store at -20°C

Storage: Batch Molecular Structure:

 H_2 O CF₃

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 98.9% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 58.16 4.11 14.28 Found 58.31 4.04 14.1

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

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CAS Number: 1358575-02-6

4-[3-[[3-Fluoro-5-(trifluoromethyl)phenyl]methyl]-5-methyl-1H-1,2,4-triazol-1-yl]-2-methylbenzamide

Description:

IUPAC Name:

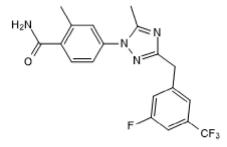
FTBMT (also known as TP 024) is a potent and selective GPR52 agonist (EC_{50} = 75 nM, E_{max} = 122%), which is selective for GPR52 over a panel of 98 targets including D₁, D₂, AMPA and NMDA. FTBMT suppresses methamphetamine-induced hyperlocomotion in mice, and inhibits MK-801-induced hyperactivity (model for acute psychosis), without causing catalepsy in mice. This compound is orally bioavailable and brain penetrant.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₉H₁₆F₄N₄O. Batch Molecular Weight: 392.35 Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info: DMSO to 100 mM

ethanol to 50 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 $45-60^{\circ}C$ water bath).

Catalog No.: 6784

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.

References:

Nishiyama et al (2017) FTBMT, a novel and selective GPR52 agonist, demonstrates antipsychotic-like and procognitive effects in rodents, revealing a potential therapeutic agent for schizophrenia. J.Pharmacol.Exp.Ther. 363 253. PMID: 28851764.

Tokumaru *et al* (2017) Design, synthesis, and pharmacological evaluation of 4-azolyl-benzamide derivatives as novel GPR52 agonists. Bioorg.Med.Chem. **25** 3098. PMID: 28433511.

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