Product Name: TC-E 5006  
Catalog No.: 4898  
Batch No.: 2

CAS Number: 1257395-14-4  
IUPAC Name: 6-[(4-Fluorophenyl)(4-methyl-1-piperidinyl)methyl]-a-methyl-4'-(trifluoromethyl)-[1,1'-biphenyl]-3-acetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{29}H_{29}F_4NO_2$
Batch Molecular Weight: 499.54
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM, ethanol to 100 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

TLC: $R_f = 0.5$ (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows >99.7% purity
$^1$H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

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</table>
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**Description:**
γ-secretase modulator. Reduces Aβ42 levels in vitro (EC₅₀ = 390 nM) and in vivo. Orally bioavailable.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₂₀H₂₄F₄NO₃
- **Batch Molecular Weight:** 499.54
- **Physical Appearance:** Off-white solid
- **Minimum Purity:** >98%

**Storage:** Store at +4°C

**Solubility & Usage Info:**
- DMSO to 100 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. Our standard recommendations are:
- **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:**