Product Name: MK 0677
Catalog No.: 5272
Batch No.: 1

CAS Number: 159752-10-0
IUPAC Name: 2-Amino-N-[(1R)-2-[1,2-dihydro-1-(methylsulfonyl)spiro[3H-indole-3,4'-piperidin]-1'-yl]-2-oxo-1-[(phenylmethoxy)methyl]ethyl]-2-methylpropanamide methanesulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{27}H_{36}N_4O_5S\cdot CH_3SO_3H \cdot \frac{3}{4}H_2O$
Batch Molecular Weight: 638.28
Physical Appearance: Off White solid
Solubility: water to 50 mM, DMSO to 100 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

HPLC: Shows 98.3% purity
$^1$H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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**Description:**
High affinity ghrelin receptor agonist (pKᵦ = 8.14). Growth hormone (GH) secretagog; stimulates GH release from rat pituitary cells in vitro (EC₅₀ = 1.3 nM) and enhances GH plasma levels in vivo. Also attenuates isoproterenol-induced lipolysis in rat adipocytes in vitro. Orally bioavailable.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₂₇H₅₄N₅O₅S.CH₃SO₂H.½H₂O
- **Batch Molecular Weight:** 638.28
- **Physical Appearance:** Off White solid
- **Minimum Purity:** >98%

**Storage:** Store at +4°C

**Solubility & Usage Info:**
- Water to 50 mM
- DMSO 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:**