Product Name: TC-G 1008
Catalog No.: 5355    Batch No.: 3
CAS Number: 1621175-65-2

1. PHYSICAL AND CHEMICAL PROPERTIES
   - Batch Molecular Formula: C_{18}H_{19}ClN_{6}O_{2}S
   - Batch Molecular Weight: 418.9
   - Physical Appearance: White solid
   - Solubility: DMSO to 100 mM
   - Storage: Store at +4°C
   - Batch Molecular Structure:

2. ANALYTICAL DATA
   - TLC: R_f = 0.6 (DCM / MeOH (9:1) + 1% NH4OH)
   - HPLC: Shows >99.2% purity
   - ^1H NMR: Consistent with structure
   - Mass Spectrum: Consistent with structure
   - Microanalysis:

     |   | Carbon | Hydrogen | Nitrogen |
     |---|--------|----------|----------|
     | Theoretical | 51.61  | 4.57     | 20.06    |
     | Found       | 51.2   | 4.68     | 19.65    |

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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**Description:**
Potent and selective GPR39 agonist (EC\textsubscript{50} values are 0.4 and 0.8 nM for rat and human receptors respectively). Selective over a panel of kinases (IC\textsubscript{50}s > 10 \mu M) and displays minimal binding affinity for ghrelin and neurotensin-1 receptors (IC\textsubscript{50}s > 30 \mu M). Increases GLP-1 levels in vitro and in vivo. Reduces TNF-\alpha-induced oxidative stress, mitochondrial dysfunction, cytokine expression and secretion of MMPs in fibroblast-like synoviocytes (FLS). Orally bioavailable.

**Physical and Chemical Properties:**
Batch Molecular Formula: C\textsubscript{18}H\textsubscript{19}ClN\textsubscript{6}O\textsubscript{2}S
Batch Molecular Weight: 418.9
Physical Appearance: White solid
Minimum Purity: >98%

**Storage:** Store at +4°C

**Solubility & Usage Info:**
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:**