1. PHYSICAL AND CHEMICAL PROPERTIES

   - **Batch Molecular Formula:** C\(_{13}\)H\(_{17}\)ClN\(_2\)C\(_2\)H\(_2\)O\(_4\)
   - **Batch Molecular Weight:** 326.78
   - **Physical Appearance:** Off-white solid
   - **Solubility:** DMSO to 100 mM
   - **Storage:** Store at +4°C

2. ANALYTICAL DATA

   - **HPLC:** Shows 98.6% purity
   - **\(^1\)H NMR:** Consistent with structure
   - **Mass Spectrum:** Consistent with structure
   - **Microanalysis:**
     
     | Element | Theoretical | Found |
     |---------|-------------|-------|
     | Carbon  | 55.13       | 55.12 |
     | Hydrogen| 5.86        | 5.83  |
     | Nitrogen| 8.57        | 8.52  |

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: ST 1936 oxalate
Catalog No.: 4337
Batch No.: 1
CAS Number: 1782228-83-4
IUPAC Name: 5-Chloro-3-[2-(dimethylamino)ethyl]-2-methylindole oxalate

Description:
High affinity, selective agonist of 5-HT₆ receptors (Kᵢ values are 13, 168, and 245 nM for human 5-HT₆, 5-HT₇ and 5-HT₂₈ receptors respectively). Displays moderate affinity for human α₂ adrenergic receptors (Kᵢ = 300 nM). Shown to increase Ca²⁺ concentration and phosphorylation of Fyn kinase, and regulate the activation of ERK1/2 in cloned cells.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₃H₁₇ClN₂C₂H₂O₄
Batch Molecular Weight: 326.78
Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:

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.

Other Information:
INFORMATION FOR CUSTOMERS IN THE UK ONLY
This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

References: