1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{17}H_{27}N_3O_4S \)
Batch Molecular Weight: 369.48
Physical Appearance: White solid
Solubility:
- 1eq. HCl to 25 mM with gentle warming
- DMSO to 50 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

Melting Point: Between 125 - 126°C
HPLC: Shows >99.2% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis: Carbon Hydrogen Nitrogen
- Theoretical: 55.26 7.37 11.37
- Found: 55.64 7.44 11.29
**Description:**
Potent, selective dopamine D2 and D3 receptor antagonist. Kᵢ values are 2.8 and 3.2 nM respectively for human D₂ and D₃ and > 1000 nM for human D₁, D₄ and D₅ receptors. Shows selectivity for presynaptic dopamine autoreceptors at low doses and blocks postsynaptic D₂/D₃ receptors at higher doses. Preferentially interacts with limbic D₂-like receptors in vivo. Atypical antipsychotic/antischizophrenic agent with limited extrapyrimidal side effects and a profile distinct from that of haloperidol and remoxipride.

**Physical and Chemical Properties:**
Batch Molecular Formula: C₂₁H₂₆N₃O₄S
Batch Molecular Weight: 369.48
Physical Appearance: White solid
Minimum Purity: >98%

**Batch Molecular Structure:**

![Molecular Structure](image)

**Storage:** Store at -20°C
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**
1eq. HCl to 25 mM with gentle warming
DMSO 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°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 aliquotted 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:**
