Product Name: ST 91
CAS Number: 4749-61-5
IUPAC Name: N-(2,6-Diethylphenyl)-4,5-dihydro-1H-imidazol-2-amine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: C13H19N3.HCl
   Batch Molecular Weight: 253.77
   Physical Appearance: White crystalline solid
   Solubility: water to 100 mM
               DMSO to 100 mM
               ethanol to 100 mM
   Storage: Desiccate at +4°C
   Batch Molecular Structure:

2. ANALYTICAL DATA

   TLC: Rₜ = 0.5 (Dichloromethane:Methanol [9:1])
   Melting Point: At 212°C
   HPLC: Shows >99.9% purity
   ¹H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:
                  Carbon Hydrogen Nitrogen
                  Theoretical 61.53 7.94 16.56
                  Found 61.44 8.05 16.51

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Description:
α2-adrenoceptor agonist that does not cross the blood brain barrier. Displays ~ 120-fold selectivity for α2 receptors over α1 receptors and acts predominantly at non-α2A-adrenoceptors which may be of the α2C subtype. Antinociceptive; increases tail-flick latencies in Sasco and Harlan rats.

Physical and Chemical Properties:
Batch Molecular Formula: C13H19N3.HCl
Batch Molecular Weight: 253.77
Physical Appearance: White crystalline solid
Minimum Purity: >99%

Storage: Desiccate at +4°C

Solubility & Usage Info:
- water to 100 mM
- 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: