Product Name: BTS 54-505 hydrochloride
Catalog No.: 2322  Batch No.: 1
CAS Number: 84484-78-6
IUPAC Name: 1-(4-Chlorophenyl)-α-(2-methylpropyl)cyclobutanemethanamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_{15}\text{H}_{22}\text{NCl.HCl.}\frac{1}{2}\text{H}_{2}\text{O}$
Batch Molecular Weight: 297.27
Physical Appearance: White solid
Solubility: water to 50 mM
DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:

![Molecular Structure](image)

2. ANALYTICAL DATA

TLC: $R_f = 0.4$ (Dichloromethane:Methanol [9:1])
Melting Point: At 95°C
HPLC: Shows 100% purity
$^1$H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>60.61</td>
<td>60.32</td>
</tr>
<tr>
<td>H</td>
<td>8.14</td>
<td>7.95</td>
</tr>
<tr>
<td>N</td>
<td>4.71</td>
<td>4.4</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
Tel:+1 612 379 2956
Product Name: BTS 54-505 hydrochloride
Catalog No.: 2322 Batch No.: 1
CAS Number: 84484-78-6
IUPAC Name: 1-(4-Chlorophenyl)-α-(2-methylpropyl)cyclobutanemethanamine hydrochloride

Description:
Potently active primary amine metabolite of sibutramine (Cat. No. 2290), exhibits a similar pharmacological profile to the parent compound. Inhibits serotonin and noradrenalin reuptake more potently than sibutramine in vitro. Reduces food intake in rodents following i.c.v. administration and increases energy expenditure via thermogenesis in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C_{15}H_{22}NCl.HCl.\frac{1}{2}H_2O
Batch Molecular Weight: 297.27
Physical Appearance: White solid

Minimum Purity: >99%

Storage: Desiccate at RT

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: