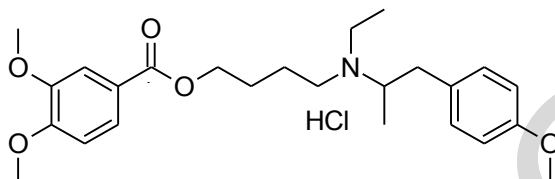


Certificate of Analysis

*Revised 14 March 2016

Structure:



| | |
|--------------------------------|--|
| Name | 3,4-dimethoxybenzoic acid 4-(ethyl(2-(4-methoxyphenyl)-1-methylethyl)amino)butyl ester hydrochloride |
| Synonym | Mebeverine hydrochloride |
| Epichem Item # | EPL-AA149 Batch 1 |
| CAS # | 2753-45-9 |
| Molecular Formula | C ₂₅ H ₃₅ NO ₅ .HCl |
| Molecular Weight (of HCl salt) | 466.02 g/mol |
| Purity | 98.1% (weight/weight)* 98.6% at 220nm by HPLC (assuming all components detected with the same response factor).* Contains no significant impurities by ¹ H NMR analysis. 0.35% water by Karl-Fischer method. 0.14% ash. |
| Combustion Analysis* | Required (%): C: 64.4; H: 7.8; N: 3.0 Found (%): C: 64.4; H: 7.7; N: 3.1 |
| Appearance | White solid |
| Melting Point | 126-133°C |
| Date of Manufacture | 19 August 2014 |
| Storage Requirements | Protect from heat, light and moisture |
| Special Precautions | This compound is for laboratory use only. Its toxicological properties may not have been fully established. It should be handled only by suitably qualified personnel. |