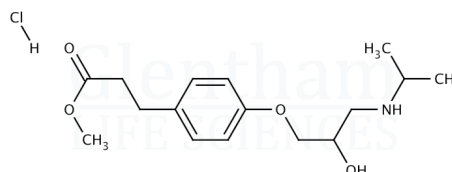


Certificate of Analysis

Product Name Esmolol hydrochloride
Glenthams Code GP0973
CAS Number 81161-17-3
PubChem SID 310272658
MDL Number MFCD00941432
Additional CAS 81147-92-4
Batch Number 938QFK

Molecular Weight 331.83
Molecular Formula $C_{16}H_{26}ClNO_4$
Storage Temp. +4°C



Property	Specification	Batch 938QFK
Physical Description	White to off-white powder	Conforms
Melting Point	86.0 - 92.0 °C	89.3°C
Total Impurities	≤ 1.0%	0.3%
Water	≤ 1.0%	0.08%
Assay	98.0 - 102.0 % (dried basis)	99.56%

Specification Version v1.0
Manufacture Date 2017-03-02
Re-Test Date 2024-06-01

Glenthams Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glenthams.com or contact us using the details above for the current version of this document.

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