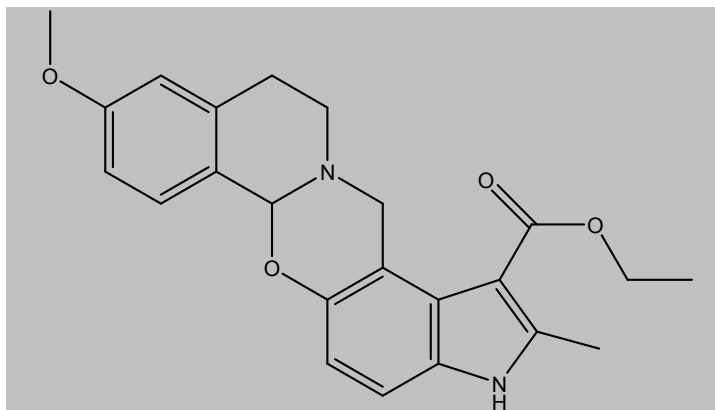


Certificate Of Analysis
Quality Control Testing and Research ApplicationCOA Preparation Date: 20/10/2014
COA Revision Date: 20/10/2017

Product: PD 102807
Cat. No.: BN0408
Batch No.: 0408BN/01
Chemical Name: 3,6a,11,14-Tetrahydro-9-methoxy-2-methyl-(12*H*)-isoquino[1,2-*b*]pyrrolo[3,2-*f*][1,3]benzoxazine-1-carboxylic acid ethyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₄N₂O₄
Batch Molecular Weight: 392.45
CAS No.: [23062-91-1]
Physical Appearance: Tan solid
Melting Point: 197 - 199° C
Solubility: Soluble to 100 mM in DMSO
Storage: RT
Batch Molecular Structure:



Product Description: **Selective muscarinic M4 receptor antagonist (IC₅₀ values are 91, 6559, 3441, 950 and 7412 nM for human M₄, M₁, M₂, M₃, and M₅ receptors respectively).**

References: 1. Augelli-Szafran et al. (1998) Bioorg Med Chem Lett 8:1991; 2. Kitaichi et al. (1999) Eur J Pharmacol 383:53; 3. Bohme et al. (2002) J Med Chem 45:3094; 4. Pujol Lereis et al. (2006) Br J Pharmacol 147:516

- CAUTION - Not fully tested. For Research use only. Not for human use. -



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2. ANALYTICAL DATA

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: HPLC Assay: > 98% (complies).

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