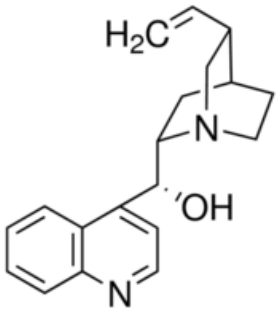
SIGMA-ALDRICH® is now MERCK

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Colombia Home > C80407 - Cinchonidine



C80407 Aldrich

Cinchonidine

96%

Synonym: **(−)-Cinchonidine**

CAS Number 485-71-2 | **Empirical Formula (Hill Notation)** $C_{19}H_{22}N_2O$ | **Molecular Weight** 294.39 | **Beilstein Registry Number** 89690 | **EC Number** 207-622-3 | **MDL number** MFCD00006783 | **PubChem Substance ID** 24893015

Properties

Related Categories	Asymmetric Synthesis, Chemical Synthesis, Chiral Catalysts, Ligands, and Reagents, Chiral Resolution Reagents, Chiral Resolving Reagents, Cinchona Alkaloids, Privileged Ligands and Complexes
InChI Key	**KMPWYEUPVWOPIM-KODHJQJWSA-N**
assay	**96%**
optical activity	**[α]23/D −109.2°, c = 1.5 in ethanol**
mp	**204-206 °C(lit.)**
Gene Information	**human ...** CYP2D6**(1565)**

Description

Packaging
10, 100 g in poly bottle

Application
The enantioselective hydrogenation of ethyl pyruvate in the presence of cinchonidine modified platinum/alumina catalyst leads to the enantiomeric excess of ethyl (*R*)-lactate.[2]

General description
Cinchonidine is a cinchona alkaloid, which belongs to the orthorhombic crystal system and *P*212121 space group.[1]

SIGMA-ALDRICH®

Product Name	Cinchonidine, 96%
Product Number	C80407
Product Brand	ALDRICH
CAS Number	485-71-2
Molecular Weight	294.39
TEST	**SPECIFICATION**
APPEARANCE (COLOR)	White to Off White
APPEARANCE (FORM)	Powder
TITRATION (NT) HCLO4 0.1M	95.5 - 104.5 %
PURITY (HPLC AREA %)	≥ 95.5 %
SPECIFIC ROTATION (20/D)	-109 ± 5 Degrees
CONCENTRATION	c=0.4 in Ethanol
INFRARED SPECTRUM	CONFORMS TO STRUCTURE