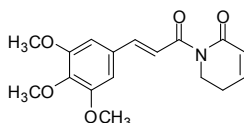




Certificate of Analysis

Axon Catalogue ID: 2488 **Batch Number:** 1
Product Name: Piperlongumine
Alternative Name(s): Piplartine, Piplartin
IUPAC Name: (E)-1-(3-(3,4,5-trimethoxyphenyl)acryloyl)-5,6-dihydropyridin-2(1H)-one

Structure:



Amount:

CAS number(s): 20069-09-4
Molecular Formula: C₁₇H₁₉NO₅ **Molecular Weight:** 317.34
Batch Molecular Formula: C₁₇H₁₉NO₅ **Batch Molecular Weight:** 317.34
Appearance: White solid **Observed mp:** 122 - 123 °C
TLC (R_f): 0.35 EtOAc/Hex (1:1)
Chemical Purity: 99.4%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 64.34, H 6.03, N 4.41; Found: C 64.16, H 6.02, N 4.27
Storage Conditions: Store at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	10.0	31.5	
	EtOH			Not Tested

Remarks:

QC Date: 02-02-2016

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to info@axonmedchem.com indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only