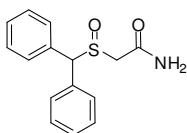




Certificate of Analysis

Axon Catalogue ID: 1296 **Batch Number:** 1
Product Name: Modafinil
Alternative Name(s): CRL 40476; GRL 40476; CN 801
IUPAC Name: 2-(Diphenyl-methanesulfinyl)-acetamide

Structure:



Amount:

CAS number(s): 68693-11-8
Molecular Formula: C₁₅H₁₅NO₂S **Molecular Weight:** 273.35
Batch Molecular Formula: C₁₅H₁₅NO₂S **Batch Molecular Weight:** 273.35
Appearance: White solid **Observed mp:** 161 - 163 °C
TLC (R_f): 0.4 DCM/MeOH (9:1)
Chemical Purity: 98.6%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 65.91, H 5.53, N 5.12; Found: C ND, H ND, N ND
Storage Conditions: Store at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water			Not Tested
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	27.3	>100 mM	
	EtOH	6.4	23.4	

Remarks:

QC Date: 12-7-2019

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