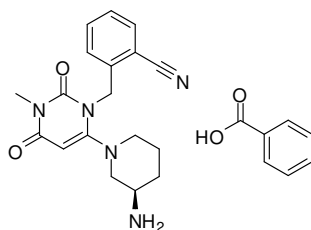




Certificate of Analysis

Axon Catalogue ID: 3310 **Batch Number:** 1
Product Name: Alogliptin benzoate
Alternative Name(s): SYR-322
IUPAC Name: (R)-2-((6-(3-Aminopiperidin-1-yl)-3-methyl-2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)methyl)benzotrile benzoate

Structure:



Amount:

CAS number(s): 850649-61-5 (parent), 850649-62-6 (Benzoate (1:1))
Molecular Formula: C₁₈H₂₁N₅O₂.C₇H₆O₂ **Molecular Weight:** 461.51
Batch Molecular Formula: C₁₈H₂₁N₅O₂.C₇H₆O₂.0.25H₂O **Batch Molecular Weight:** 466.02
Appearance: White solid **Observed mp:** 182.5 - 184.8 °C
TLC (R_f): 0.3 DCM/MeOH (4:1)
Chemical Purity: 99.7%
Optical Purity (ee): Optically pure
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 64.43, H 5.95, N 15.03; Found: C 64.41, H 5.80, N 15.19
Storage Conditions: Desiccate at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	46.6	>100 mM	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	19.0	40.8	
	EtOH			Not Tested

Remarks:

QC Date: 05-02-2021

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