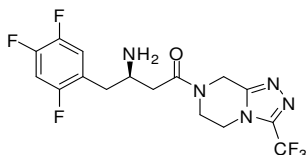


## Certificate of Analysis

**Axon Catalogue ID:** 3251 **Batch Number:** 2  
**Product Name:** Sitagliptin  
**Alternative Name(s):** N.A.  
**IUPAC Name:** (R)-3-Amino-1-(3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl)-4-(2,4,5-trifluorophenyl)butan-1-one

**Structure:**



**Amount:**

**CAS number(s):** 486460-32-6  
**Molecular Formula:** C<sub>16</sub>H<sub>15</sub>F<sub>6</sub>N<sub>5</sub>O **Molecular Weight:** 407.31  
**Batch Molecular Formula:** C<sub>16</sub>H<sub>15</sub>F<sub>6</sub>N<sub>5</sub>O **Batch Molecular Weight:** 407.31  
**Appearance:** White Solid **Observed mp:** 115 - 119 °C  
**TLC (R<sub>f</sub>):** 0.15 DCM/MeOH(9:1)  
**Chemical Purity:** 99.9%  
**Optical Purity (ee):** Optically pure  
**Optical Rotation (Det.):** [α]<sub>D</sub> = -24.2° with c = 1 in CHCl<sub>3</sub>  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 47.18, H 3.71, N 17.19; Found: C 47.07, H 3.98, N 17.15  
**Storage Conditions:** Store at +4 °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)	40.7	>100 mM	
	DMSO	29.3	72.0	
	EtOH	40.7	>100 mM	

**Remarks:**

**QC Date:** 22-8-2023

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](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**