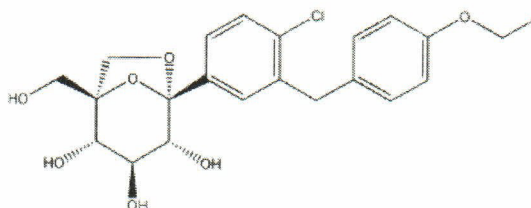


Molecular Structure



Molecular Formula $C_{22}H_{25}ClO_7$
Molecular Weight 436.88
CAS Registry Number 1210344-57-2

Sep 18 2025

Tests	Specifications	Results
Appearance	White to off-white solid	Off-white powder
Identification	IR, HPLC	Positive
Specific rotation	+5.0 ~ +10.0°	+6.5°
Residue on ignition	≤ 0.1%	0.06%
Water	≤ 0.5%	0.22%
Heavy metals	≤ 20 ppm	< 20 ppm
Related substances	Any single impurity ≤ 0.1% Total impurities ≤ 1.0%	0.02% 0.10%
Residual solvents	Methanol ≤ 0.3% Ethanol ≤ 0.5% Dichloromethane ≤ 0.06% Tert-Butyl methyl ether ≤ 0.5% Ethyl acetate ≤ 0.5% Hexamethyldisiloxane ≤ 0.1% Pyridine ≤ 0.02% DMSO ≤ 0.5%	Conforms Conforms Conforms Conforms Conforms Conforms Conforms
L-Pyroglutamic Acid	21.7 ~ 23.9%	22.9%
Assay (HPLC)	98.0 ~ 102.0%	99.7%
Packaging & storage	Preserve in tight containers and store in a dry place	
Conclusion	Material complies with in-house standard	