

## Product Information

### Compound Name

Linagliptin Impurity 56

### Synonyms

8-[(3R)-3-aminopiperidin-1-yl]-7-(4-hydroxybut-2-yn-1-yl)-3-methyl-1-[(4-methylquinazolin-2-yl)methyl]-2,3,6,7-tetrahydro-1H-purine-2,6-dione hydrochloride

### Chemical Formula

C<sub>25</sub>H<sub>28</sub>O<sub>3</sub>N<sub>8</sub>·HCl

### Molecular Weight

525.01

### Catalogue Number

L0039.59

### Lot No.

YML-594-22

### Long-Term Storage Conditions

2-8 °C

### Shipping Conditions

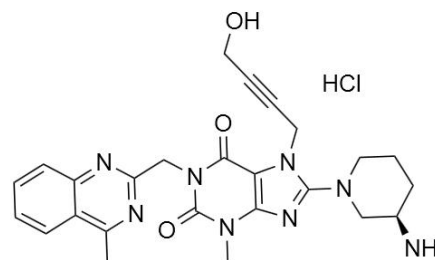
Ambient

### Appearance

White Solid

**Test Date:** May. 14, 2024

**Re-test Date:** May. 13, 2027



**CAS No. :** 1807608-59-8 (free base)

## Analytical Information

### Solubility

CH<sub>3</sub>CN+H<sub>2</sub>O

### Weight Loss by TGA

10.34%

### Method for Determining Identity

MS, <sup>1</sup>H NMR (DMSO-d<sub>6</sub>), TGA

### Purity (HPLC)

99.46%

### Potency

89.17%

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CERTIFICATE OF ANALYSIS