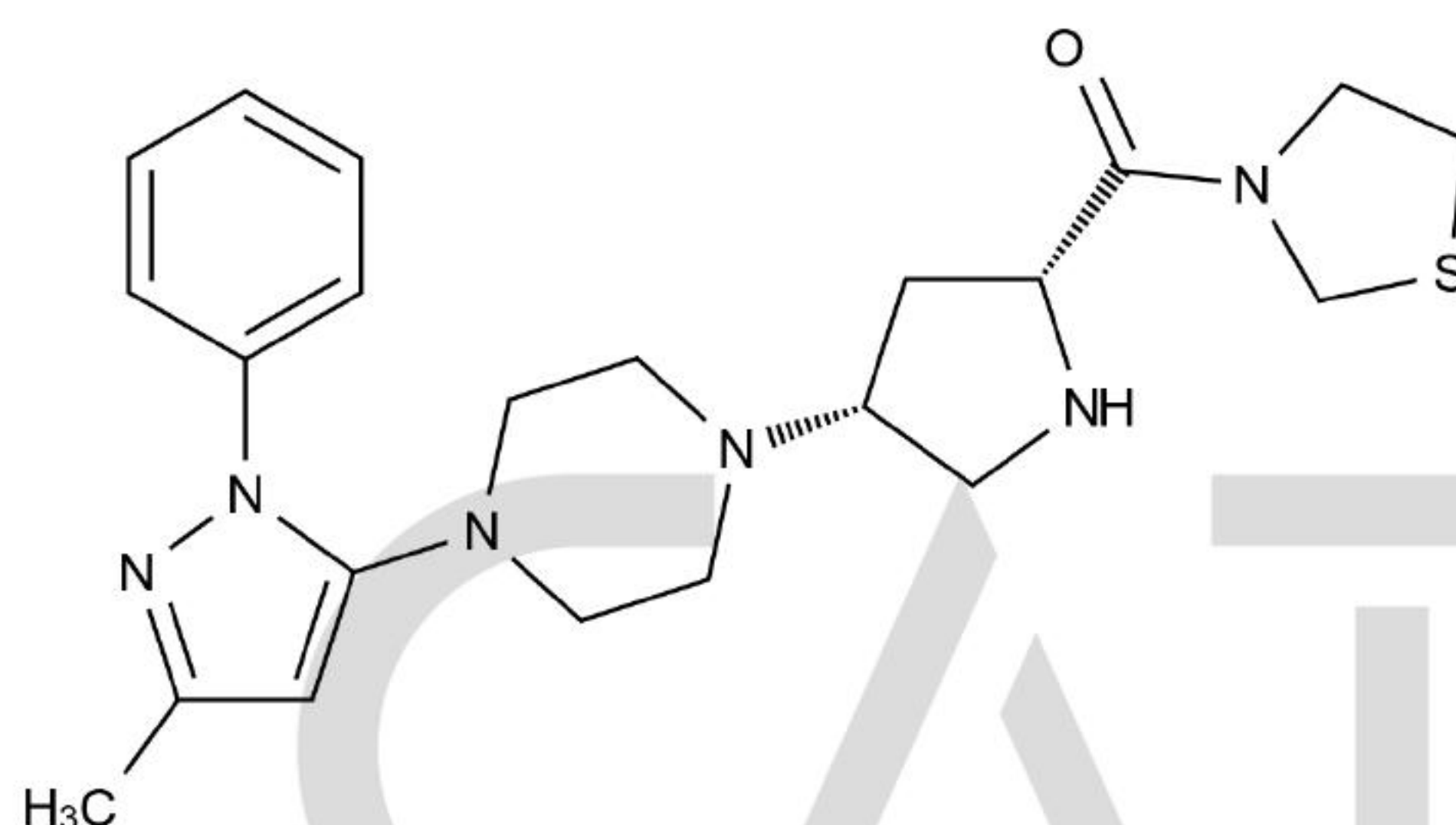


Certificate of Analysis

Reference Material & Standard

Product Name:	Teneligliptin Impurity 13	Catalogue Number:	C4X-176013
Synonyms:	{{(2R,4R)-4-[4-(3-Methyl-1-phenyl-1H-pyrazol-5-yl)-1-piperazinyl]-2-pyrrolidinyl}(1,3-thiazolidin-3-yl)methanone	Lot Number:	0601-RH-0113
CAS Number:	1404559-17-6	Expiry Date:	Jun 11, 2030
Molecular Formula:	C ₂₂ H ₃₀ N ₆ OS	Storage:	-20°C±5°C Sealed
Molecular Weight:	426.58	Shipping Condition:	Shipping with Ice Packs
Solubility:	Soluble in Acetonitrile and DMSO		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	99.626%
Residue on Ignition	TGA	0.4399%
Loss on Drying	TGA	1.9003%
Assay	qNMR	97.5%
Assay	Mass Balance	97.3%

Comment:

- The retest date of this product is Jun 11, 2029.
- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss on Drying}) * \text{Purity HPLC (\%)} / 100\%$$
Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Alice

Approved by General Manager:

David

Date: Jul 09, 2026

Date: Jul 09, 2026

Date: Jul 09, 2026



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