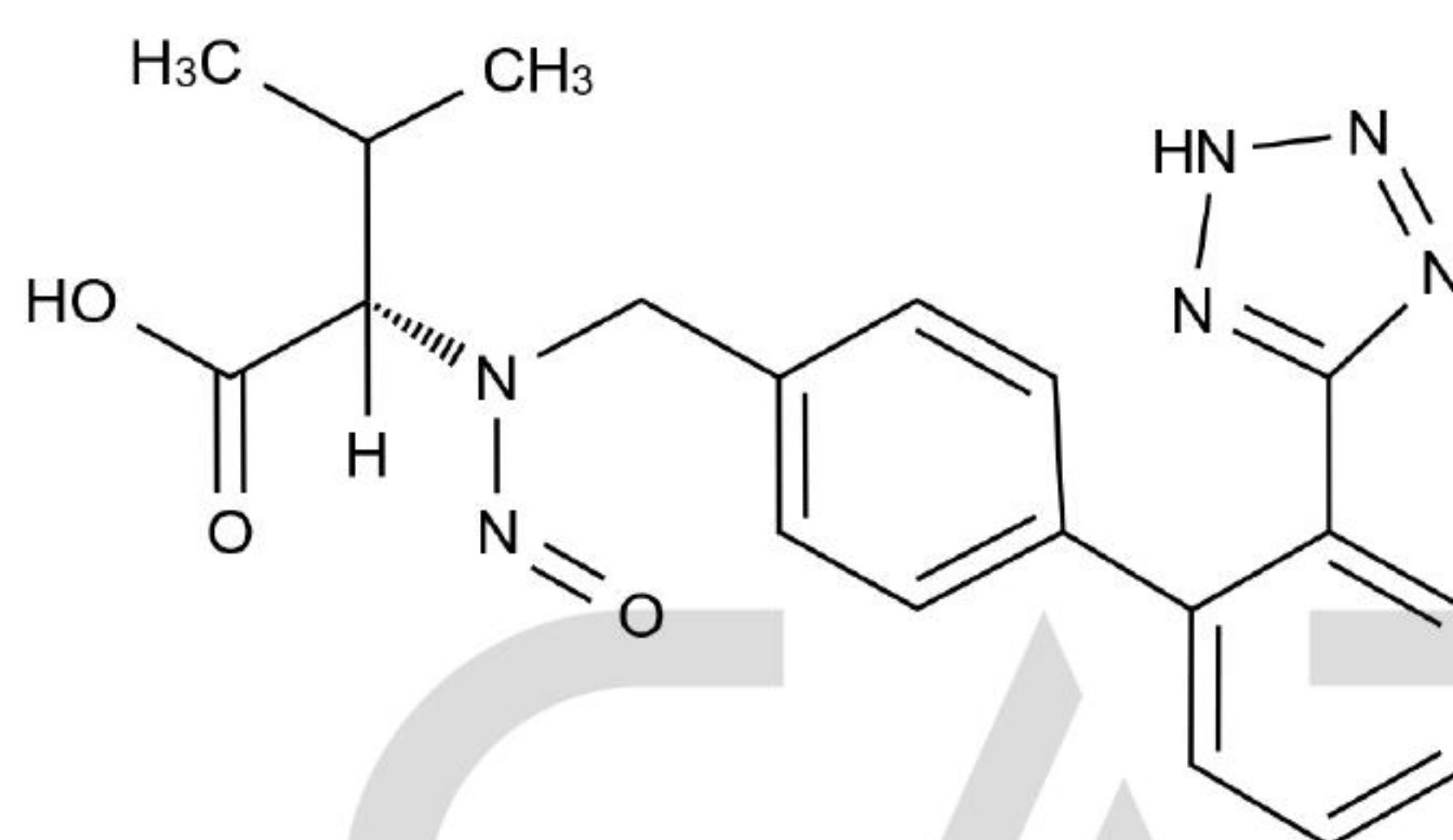


Certificate of Analysis

Reference Material & Standard

Product Name:	Valsartan Impurity 67	Catalogue Number:	C4X-105767
Synonyms:	N-[[2'-(1H-tetrazole-5-yl)biphenyl-4-yl]methyl]-N-nitroso-L-valine	Lot Number:	0812-RH-0037
CAS Number:	2254485-68-0	Expiry Date:	Sep 02, 2030
Molecular Formula:	C ₁₉ H ₂₀ N ₆ O ₃	Storage:	2°C ~ 8°C Sealed
Molecular Weight:	380.41	Shipping Condition:	Shipping at Room Temperature
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	99.544%
Residue on Ignition	TGA	0.9066%
Loss on Drying	TGA	1.6502%
Assay	qNMR	96.0%
Assay	Mass Balance	97.0%

Comment:

1. The retest date of this product is Sep 02, 2029.
2. 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.
3. The material may undergo tautomerism.

Signature:

Prepared by:

Koi

Reviewed by:

Alice

Approved by General Manager:

David

Date: Sep 17, 2026

Date: Sep 17, 2026

Date: Sep 17, 2026



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

