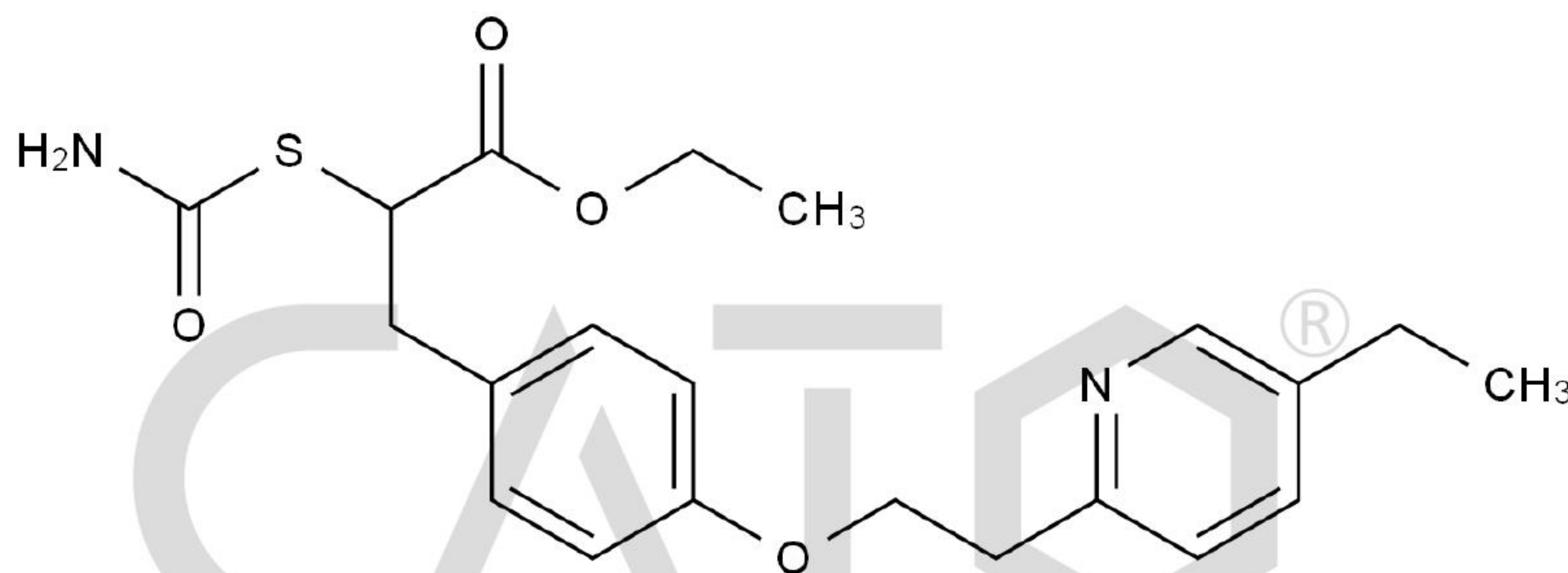


Certificate of Analysis

Reference Material & Standard

Product Name:	Pioglitazone EP Impurity D	Catalogue Number:	C4X-13835
Synonyms:	N/A	Lot Number:	0926-RF-0038
CAS Number:	868754-41-0	Expiry Date:	Mar 18, 2030
Molecular Formula:	C ₂₁ H ₂₆ N ₂ O ₄ S	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	402.51	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.330%
Water Content	Karl Fischer	0.16%
Residual Solvents	NMR	Not detected in NMR
Assay		97.2%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Water Content - Residual Solvents) * Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Mar 19, 2026

Date: Mar 19, 2026

Date: Mar 19, 2026



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