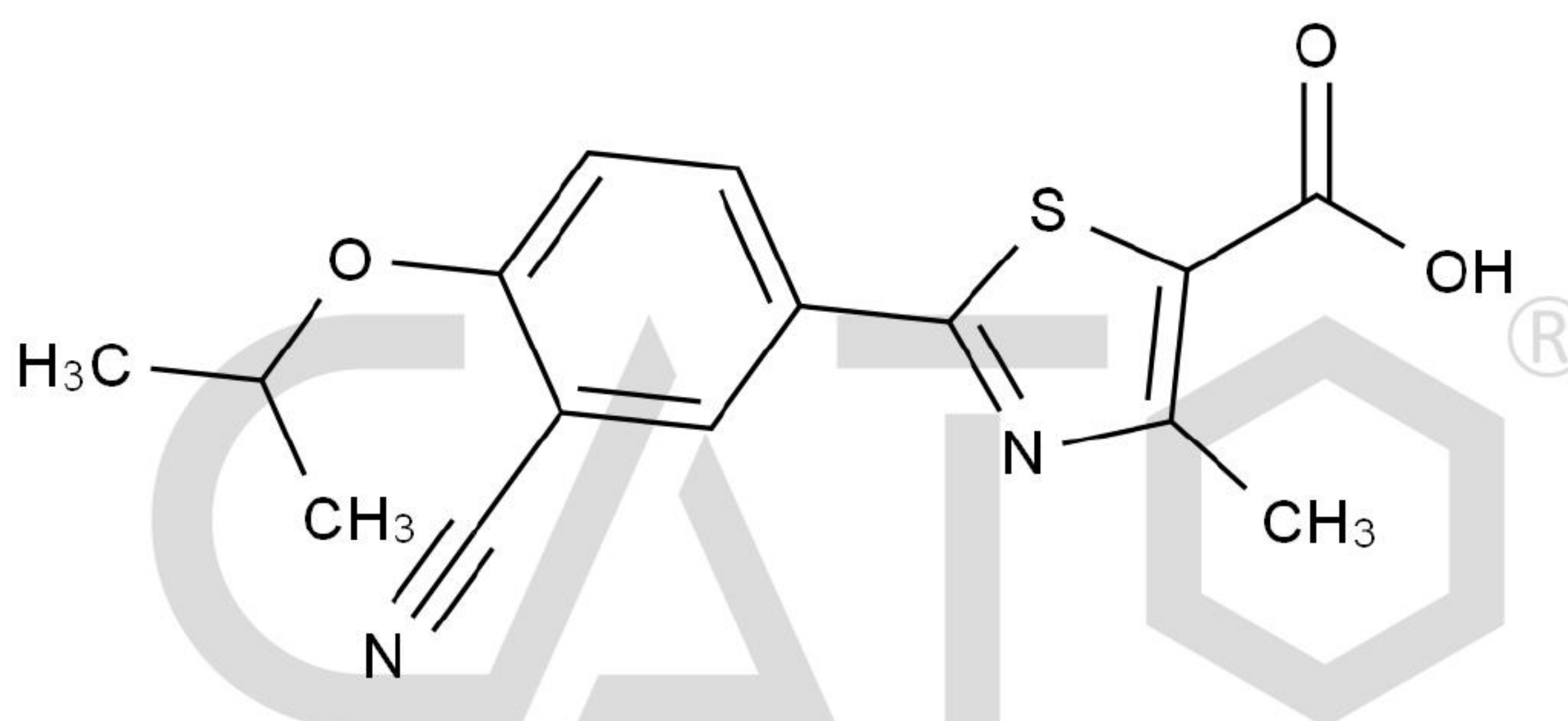


Certificate of Analysis

Reference Material & Standard

Product Name:	Febuxostat Impurity 48	Catalogue Number:	C4X-116248
Synonyms:	2-(3-Cyano-4-isopropoxyphenyl)-4-methylthiazole-5-carboxylic acid	Lot Number:	1106-RG-0015
CAS Number:	144060-52-6	Expiry Date:	Nov 11, 2029
Molecular Formula:	C ₁₅ H ₁₄ N ₂ O ₃ S	Storage:	2°C ~ 8°C Sealed
Molecular Weight:	302.35	Shipping Condition:	Shipping at Room Temperature
Solubility:	Soluble in Acetonitrile and DMSO		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	98.359%
Residue on Ignition	TGA	0.0924%
Loss On Drying	TGA	0.0237%
Assay	qNMR	97.9%
Assay	Mass Balance	98.2%

Comment:

- The retest date of this product is Nov 11, 2028.
- 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: Nov 12, 2025

Date: Nov 12, 2025

Date: Nov 12, 2025



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