

## Febuxostat (Uloric)

Catalog No.S1547

### Technical Data

<b>Molecular Weight (MW)</b>	316.37
<b>Formula</b>	C <sub>16</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub> S
<b>CAS No.</b>	144060-53-7, 1140907-13-6 (sodium salt)
<b>Synonyms</b>	Adenuric
<b>Solubility (25°C)</b>	DMSO 63 mg/mL Water <1 mg/mL Ethanol <1 mg/mL
<b>Storage</b>	2 years -20°C Powder 2 weeks 4°C in DMSO 2 months -80°C in DMSO
<b>Chemical Name</b>	2-(3-cyano-4-isobutoxyphenyl)-4-methylthiazole-5-carboxylic acid

### Biological Activity

Febuxostat (Uloric) is a non-purine selective XAO inhibitor with IC<sub>50</sub> of 114 - 210 nM.

**Description** It works by non-competitively blocking the channel leading to the active site on xanthine oxidase.<sup>[1]</sup> Xanthine oxidase is needed to successively oxidize both hypoxanthine and xanthine to uric acid. Hence, febuxostat inhibits xanthine oxidase, therefore reducing production of uric acid.<sup>[2][3]</sup>