

Product Name:	Azamulin
Product Number:	A140
CAS Number:	76530-44-4
Molecular Formula:	C ₂₄ H ₃₆ N ₄ O ₄ S
Molecular Weight:	476.6
Appearance:	White solid
Storage Conditions:	-20°C
Description:	<p>Azamulin is a semi-synthetic pleuromutilin prepared by sequential reaction of dihydropleuromutilin tosylate with 2-amino-1,2,4-triazole-5-thiol. While azamulin is a broad spectrum antibiotic in the pleuromutilin class, this aspect of its bioprofile has received little attention. In fact, the triazole substituent added to nominally improve the drug's bioavailability, imparted an unusual selectivity for the inhibition of specific cytochrome P450 mixed function oxidase sub-types, important for understanding the manner in which the body metabolises drugs or xenobiotics.</p> <p>Azamulin is soluble in ethanol, methanol, DMF and DMSO and has limited water solubility.</p>
References:	<p>A comparative study of 1-substituted imidazole and 1,2,4-triazole antifungal compounds as inhibitors of testosterone hydroxylations catalysed by mouse hepatic musomal cytochromes P-450 Ballard, S. et al. Biochem. Pharmacol. 1988, 37, 4643.</p>