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## Product Datasheet

### Zileuton, CAS [[111406-87-2]] FBM-10-1098

Article Name	Zileuton, CAS [[111406-87-2]]
Biozol Catalog Number	FBM-10-1098
Supplier Catalog Number	10-1098
Alternative Catalog Number	FBM-10-1098-10MG, FBM-10-1098-50MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	5-LO inhibitor...
Molecular Weight	236.29
Purity	>98%, NMR (Conforms)
Form	white solid
CAS Number	[111406-87-2]
Formula	C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> S
Application Notes	Zileuton is a reversible inhibitor (IC <sub>50</sub> = 500nM RBL-1 cells, 300nM rat PMNL cells) of 5-Lipoxygenase (5-LO). <sup>1</sup> It also inhibited leukotriene B <sub>4</sub> biosynthesis (IC <sub>50</sub> s = 400nM rat PMNL, 400nM human PMNL and 900nM human whole blood). <sup>1</sup> Zileuton suppressed prostaglandin biosynthesis via interference with arachidonic acid release in macrophages independent of 5-LO inhibition (IC <sub>50</sub> = 13 μM PGE <sub>2</sub> inhibition in LPS-stimulated whole blood). <sup>2</sup> Zileuton was approved by the FDA in 1997 for the treatment of asthma (ZYFLO).