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## Product Datasheet

### Sulfasalazine FBM-10-4566

Article Name	Sulfasalazine
Biozol Catalog Number	FBM-10-4566
Supplier Catalog Number	10-4566
Alternative Catalog Number	FBM-10-4566-250MG,FBM-10-4566-1G
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Anti-inflammatory / antibiotic...
Molecular Weight	398.39
Purity	98%, NMR (Conforms)
Form	Orange solid
CAS Number	[599-79-1]
Formula	C18H14N4O5S

Application Notes

Sulfasalazine is an approved drug with diverse potential applications. Sulfasalazine is a clinically useful agent for the treatment of colitis and ileocolitis.<sup>1</sup> It is metabolized by intestinal bacteria to release the anti-inflammatory agent 5-aminosalicylic acid and the antibacterial agent sulfapyridine. It has also been found to be a specific inhibitor of NFkB (IC<sub>50</sub> = 500 μM)<sup>2</sup>, inhibitor of IL-2 production of activated T lymphocytes<sup>3</sup> and, TNFalpha and IL-1 synthesis in macrophages<sup>4</sup>. Sulfasalazine has more recently been shown to be inhibitor of the system Xc- cystine-glutamate antiporter.<sup>5,6</sup> It was able to block cystine uptake causing depletion of glutathione resulting in compromised cellular redox defense and ultimately cessation of tumor growth. It has been studied for the treatment of breast, pancreatic, lymphoma, brain and other cancers.