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Product Datasheet

Nitazoxanide, CAS [[55981-09-4]] FBM-10-4633

Article Name	Nitazoxanide, CAS [[55981-09-4]]
Biozol Catalog Number	FBM-10-4633
Supplier Catalog Number	10-4633
Alternative Catalog Number	FBM-10-4633-10MG,FBM-10-4633-50MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Antiviral and antiparasitic agent...
Molecular Weight	307.28
Purity	99% by HPLC, NMR (Conforms)
Form	Off-white solid
CAS Number	[55981-09-4]
Formula	C12H9N3O5S

Application Notes	Nitazoxanide is a clinically relevant antiparasitic agent.¹ It has since been repurposed as a broad-spectrum antiviral agent that is active against many RNA and DNA viruses including influenza, Hepatitis B and C, RSV, coronavirus, dengue and others.² Its antiparasitic activity is believed to be due to inhibition of pyruvate:ferredoxin/flavodoxin oxidoreductases.³ Antiviral activity involves activation of protein kinase activated by double-stranded RNA (PKR) leading to phosphorylation of eukaryotic initiation factor 2 alpha (eIF2alpha).⁴ Nitazoxanide has also been found to inhibit Wnt signaling independent of adenomatous polyposis coli (APC) - it targets peptidyl arginine deiminase 2 (PAD2) resulting in increased citrullination of beta-catenin.⁵
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