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Product Datasheet

Nitazoxanide FBM-10-4633

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|----------------------------|--------------------------------------|
| Article Name | Nitazoxanide |
| 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.1It 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