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## Product Datasheet

### **S07-2010, CAS [[1223194-71-5]] FBM-10-4148**

Article Name	S07-2010, CAS [[1223194-71-5]]
Biozol Catalog Number	FBM-10-4148
Supplier Catalog Number	10-4148
Alternative Catalog Number	FBM-10-4148-5MG,FBM-10-4148-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	pan-AKR1C inhibitor...
Molecular Weight	371.46
Purity	98% by TLC NMR (Conforms)
Form	Off-white solid
CAS Number	[1223194-71-5]
Formula	C19H21N3O3S
Application Notes	S07-2010 is a pan-aldo-keto reductase 1C (AKR1C) inhibitor (IC50s for AKR1C isoforms: 1C1 = 470 nM, 1C2 = 730 nM, 1C3 = 190 nM, 1C4 = 360 nM). Dysregulated AKR1C3 expression (and overexpression of all AKR1C isoforms in general) is related to resistance to radio- and chemotherapy in various tumor types and is associated with development of and poor prognosis in many cancers. S07-2010 displayed cytotoxicity to doxorubicin-resistant MCF-7 cells (IC50 = 127.5 µM) and cisplatin-resistant A549 cells (IC50 = 5.51 µM). Combination treatment of chemotherapeutic agents and S07-2010 showed synergistic effects in drug-resistant cell lines.