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Product Datasheet

Mirabegron, CAS [[223673-61-8]]

FBM-10-4228

Article Name	Mirabegron, CAS [[223673-61-8]]
Biozol Catalog Number	FBM-10-4228
Supplier Catalog Number	10-4228
Alternative Catalog Number	FBM-10-4228-10MG, FBM-10-4228-50MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	beta-3 Adrenergic agonist...
Molecular Weight	396.51
Purity	>98% by HPLC NMR (Conforms)
Form	Beige solid
CAS Number	[223673-61-8]
Formula	C21H24N4O2S

Application Notes

Mirabegron is a potent ($EC_{50} = 22.4$ nM CHO cells expressing human $\beta 3$ -ARs) beta-3 adrenergic receptor ($\beta 3$ -AR) agonist with high selectivity over the beta-1 and beta-2 receptors.¹ Clinically useful for the treatment of overactive bladder syndrome. Chronic treatment of human subjects with mirabegron increased brown adipose tissue (BAT) metabolic activity, increased HDL and bile acid levels, and produced substantial improvements in glucose and insulin metabolism.² Mirabegron inhibited tumor growth in various tumor models including pancreatic ductal adenocarcinoma and hepatocellular carcinoma via altering global metabolism in an uncoupling protein 1 (UCP1, a key protein for non-shivering thermogenesis) dependent manner.³