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Product Datasheet

Nitisinone FBM-10-4648

Article Name	Nitisinone
Biozol Catalog Number	FBM-10-4648
Supplier Catalog Number	10-4648
Alternative Catalog Number	FBM-10-4648-50MG,FBM-10-4648-250MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Tyrosine metabolism inhibitor...
Molecular Weight	329.23
Purity	>98% by TLC (NMR Conforms)
Form	Beige solid
CAS Number	[104206-65-7]
Formula	C14H10F3NO5
Application Notes	Inhibitor of 4-Hydroxyphenylpyruvate dioxygenase (HPPD, IC50 = 40 nM1 and 173 nM2) and is in clinical use for the treatment of hereditary tyrosinemia type 13. CD13+ cancer stem cells (CSCs) are dependent on aerobic metabolism of tyrosine - Nitisinone inhibition of tyrosine metabolism results in lowered availability of acetyl-CoA and fumarate for use in the citric acid cycle causing these CSCs to enter cell cycle, decreasing self-renewal, and making them more susceptible to chemotherapy. ⁴ Nitisinone is a potential treatment option for cancers that rely on tyrosine metabolism.