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Product Datasheet

Talabostat mesylate, CAS [[150080-09-4]] FBM-10-4005

Article Name	Talabostat mesylate, CAS [[150080-09-4]]
Biozol Catalog Number	FBM-10-4005
Supplier Catalog Number	10-4005
Alternative Catalog Number	FBM-10-4005-5MG,FBM-10-4005-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	S9 family serine protease inhibitor...
Molecular Weight	310.18
Purity	97% by HPLC, NMR (conforms)
Form	White solid
CAS Number	[150080-09-4]
Formula	C ₉ H ₁₉ BN ₂ O ₃ CH ₃ SO ₃ H

Application Notes	Talabostat mesylate is a non-selective inhibitor of the S9 family of serine proteases (IC50s: DPPIV = <4nM, DPP8 = 4nM, DPP9 = 11nM, QPP = 310nM, FAP = 560nM, PEP = 390nM).¹ Toxicity caused by DPP8/9 inhibition observed with non-selective DPPIV inhibitors limits their use as a diabetes treatment. However, Talabostat displays potent antitumor effects dependent on an intact host immune response.² It mediates tumor regression by accelerating the expansion of tumor-specific T cells.³ Additionally, DPP8/9 inhibition by Talabostat activates the proprotein form of Caspase-1 leading to a proinflammatory form of cell death in monocytes and macrophages - pyroptosis.⁴ Pyroptosis induction by DPP8/9 inhibition has been shown to be caused by activation of the inflammasome sensor protein NLRP1B.⁵
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