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Product Datasheet

SW033291, CAS [[459147-39-8]]

FBM-10-4888

Article Name	SW033291, CAS [[459147-39-8]]
Biozol Catalog Number	FBM-10-4888
Supplier Catalog Number	10-4888
Alternative Catalog Number	FBM-10-4888-5MG, FBM-10-4888-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	15-PGDH inhibitor...
Molecular Weight	412.58
Purity	98% by HPLC NMR (Conforms)
Form	Yellow solid
CAS Number	[459147-39-8]
Formula	C21H20N2OS3

Application Notes

SW033291 is an inhibitor of 15-hydroxyprostaglandin dehydrogenase (IC₅₀ = 1.5 nM) that increases prostaglandin E2 levels in bone marrow and other tissues by inhibiting in vivo degradation of PGE2.¹ It accelerated neutrophil recovery, regeneration of platelets and red blood cells, and expanded the numbers of more primitive bone marrow SKL cells in bone marrow transplants. SW033291 also stimulated colon epithelial regeneration in a mouse model of ulcerative colitis. It increased bone formation in mice via PGE2 activation of EP4.2 SW033291 enhanced myogenic differentiation and myotube formation in repairing muscle defects in mice.³ It reduced the severity of pulmonary fibrotic lesions and extracellular matrix remodeling and improved pulmonary function in bleomycin-treated mice.⁴ It also prevented hepatic ischemia-reperfusion injury in mice.⁵ SW033291 mitigates oxidative damage, suppresses neuroinflammation, and restores blood-brain barrier integrity in mouse models of Alzheimers disease and traumatic brain injury.⁶ In addition to halting neurodegeneration, it also preserved cognitive function at levels indistinguishable from healthy controls.