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## Product Datasheet

### Reparixin, CAS [[266359-83-5]] FBM-10-2527

Article Name	Reparixin, CAS [[266359-83-5]]
Biozol Catalog Number	FBM-10-2527
Supplier Catalog Number	10-2527
Alternative Catalog Number	FBM-10-2527-5MG,FBM-10-2527-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	CXCR 1/2 allosteric antagonist...
Molecular Weight	283.39
Purity	99% by HPLC NMr (Conforms)
Form	White solid
CAS Number	[266359-83-5]
Formula	C14H21NO3S

Application Notes

Reparixin is a noncompetitive allosteric inhibitor of IL-8 (CXCL8) activation of CXCR1 and CXCR2 chemokine receptors ( $IC_{50} = 1$  and  $100$  nM, respectively). It blocks a number of activities related to IL-8 signaling, including leukocyte recruitment ( $IC_{50} = 1$  nM) without affecting receptor activation induced by other CXCR1 and CXCR2 agonists.<sup>1</sup> In spontaneously hypertensive rats,  $5$  mg/kg reparixin administered daily for three weeks was shown to reduce blood pressure by inhibiting hypertension-related mediators.<sup>2</sup> It attenuates inflammatory responses and promotes recovery of function after traumatic lesion to the spinal cord.<sup>3</sup> Reparixin blockade ( $100$  nM) of CXCR1 has also been used to deplete a cancer stem cell population in human breast cancer cell lines in vitro.<sup>4</sup>