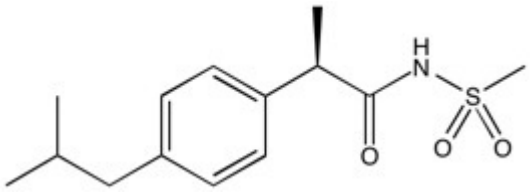
Tribioscience

Reparixin, CXCR1/2 allosteric antagonist

Catalog	Unit
TBI2527-5MG	5 mg
TBI2527-25MG	25 mg

Product Details

Formal Name: αR-Methyl-4-(2-methylpropyl)-N-(methylsulfonyl)-benzeneacetamide
Alternate Names: DF 1681Y; Repertaxin
Molecular Formula: $C_{14}H_{21}NO_3S$
Formula Weight: 283.39
CAS Number: 266359-83-5
Purity: >98%
Formulation: powder
Solubility: Soluble in DMSO (up to 100 mg/ml) or in Ethanol up to 25 mg/ml)
Storage: -20°C
Stability: ≥ 1 year.



Applications

CXCR1/2 allosteric antagonist

Functions

Reparixin is a noncompetitive allosteric inhibitor of IL-8 (CXCL8) activation of CXCR1 and CXCR2 chemokine receptors (IC50 = 1 and 100 nM, respectively). It blocks a number of activities related to IL-8 signaling, including leukocyte recruitment (IC50 = 1 nM) without affecting receptor activation induced by other CXCR1 and CXCR2 agonists. In spontaneously hypertensive rats, 5 mg/kg reparixin administered daily for three weeks was shown to reduce blood pressure by inhibiting hypertension-related mediators. It attenuates inflammatory responses and promotes recovery of function after traumatic lesion to the spinal cord. 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.

Application Procedures

First dissolved in DMSO (up to 100 mg/ml) or in Ethanol up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

For research use only.

Tribioscience, Inc. | 365 San Aleso Ave, Sunnyvale, CA 94085 | Phone: 408-498-0197
info@tribioscience.com Fax: 650-618-5498 www.tribioscience.com