

Product Data Sheet

Product Name: NecroX-5

Cat. No.: GC31873

Chemical Properties

Cas. No. 1383718-29-3

SMILES O=S1(CCN(CC2=CC3=C(NC(C4=CC=CC=C4)=C3)C(NCC5CCOCC5)=C2)CC1)=O.CS(=O)(O)=O.CS(=O)(O)=O

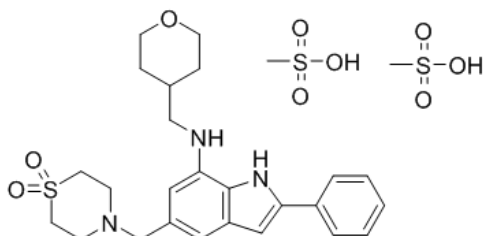
Formula $C_{27}H_{39}N_3O_9S_3$ M.Wt 645.81

Solubility DMSO : 170 mg/mL (263.24 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

NecroX-5 is a derivative of the NecroX, reduces intracellular calcium concentration, and possesses anti-inflammatory and anti-cancer activity.

NecroX-5 (10 or 40 μM) inhibits breast cancer cell migration, which is correlated with mitoROS

Caution: Product has not been fully validated for medical applications. For research use only.

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reduction, and mediated by AKT inhibition. NecroX-5 (10 μ M) decreases intracellular calcium concentration in 4T1 cells by blocking Ca^{2+} influx, which mediated the inhibition of cell migration, AKT downregulation and the reduction of mitochondrial ROS levels[1]. NecroX-5 (10 μ M) treatment for 24 h, effectively decreases the increased $\text{TNF}\alpha$, $\text{TGF}\beta 1$, pSmad2 and the expression of Dcn in LPS-stimulated H9C2 cells[2].

NecroX-5 (2.5 mg/kg, everyday other day) inhibits breast cancer cell metastasis in TUBO-P2J tumour-bearing mice[1].

[1]. Park JH, et al. NecroX-5 prevents breast cancer metastasis by AKT inhibition via reducing intracellular calcium levels. *Int J Oncol.* 2017 Jan;50(1):185-192. [2]. Thu VT, et al. NecroX-5 exerts anti-inflammatory and anti-fibrotic effects via modulation of the $\text{TNF}\alpha$ /Dcn/ $\text{TGF}\beta 1$ /Smad2 pathway in hypoxia/reoxygenation-treated rat hearts. *Korean J Physiol Pharmacol.* 2016 May;20(3):305-14.

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