

Product Data Sheet

Product Name: VU591
Cat. No.: GC37930

Chemical Properties

Cas. No. 1222810-74-3

SMILES C1=CC2=C(C=C1[N+](=O)[O-])NC(=N2)COCC3=NC4=C(C=C(C=C4)[N+](=O)[O-])N3

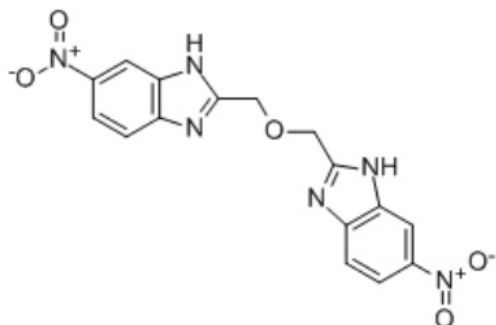
Formula $C_{16}H_{12}N_6O_5$ M.Wt 368.3

Solubility DMSO: 62.5 mg/mL (169.70 mM); Storage Store at -20°C
Water: < 0.1 mg/mL (insoluble)

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

VU591 is a potent, selective renal outer medullary potassium channel (ROMK or Kir1.1) inhibitor, with an IC₅₀ of 0.24 μM [1]. IC₅₀: 0.24 μM (ROMK) [1].

[1]. Bhawe G, et al. Development of a selective small-molecule inhibitor of Kir1.1, the renal outer medullary potassium channel. Mol Pharmacol. 2011 Jan;79(1):42-50.

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

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