

Product Data Sheet

Product Name: UAMC-3203

Cat. No.: GC40193

Chemical Properties

Cas. No. 2271358-64-4

SMILES O=S(C(C=C1NCC2=CC=CC=C2)=CC=C1NC3CCCCC3)(NCCN4CCNCC4)=O

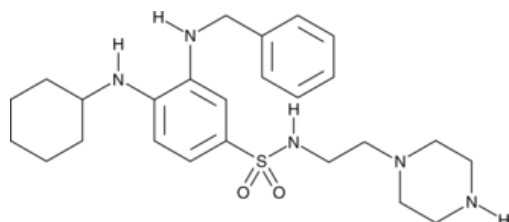
Formula C₂₅H₃₇N₅O₂S M.Wt 471.7

Solubility DMSO : 250 mg/mL (530.04 mM; Need ultrasonic) Storage Store at -20°C

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

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

Structure



Background

UAMC-3203 is an inhibitor of ferroptosis that has an IC₅₀ value of 10 nM for inhibition of erastin-induced ferroptosis in IMR-32 neuroblastoma cells. It decreases iron-induced plasma lactate dehydrogenase (LDH) levels in a mouse model of acute iron poisoning when administered at a dose of 20 µmol/kg. It is not toxic to mice following chronic administration of a 20 µmol/kg dose for four weeks. UAMC-3203 has increased solubility and a longer half-life in mouse, rat, and human microsomes and isolated plasma than the ferroptosis inhibitor ferrostatin-1 . In an in silico membrane dynamics study, UAMC-3203 was incorporated into a phospholipid bilayer.

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

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