**UAMC-3203**
Item No. 26525

**Formal Name:** 3-(benzylamino)-4-(cyclohexylamino)-N-(2-(piperazin-1-yl)ethyl)benzenesulfonamide

**MF:** C_{25}H_{37}N_{5}O_{2}S

**FW:** 471.7

**Purity:** ≥98%

**UV/Vis.:** λ_{max}^\* 237, 286 nm

**Supplied as:** A solution in ethanol

**Storage:** -20°C

**Stability:** ≥1 year

*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

**Laboratory Procedures**

UAMC-3203 is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice.

**Description**

UAMC-3203 is an inhibitor of ferroptosis that has an IC_{50} value of 10 nM for inhibition of erastin-induced ferroptosis in IMR-32 neuroblastoma cells.\(^1\) 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 (Item No. 17729). In an in silico membrane dynamics study, UAMC-3203 was incorporated into a phospholipid bilayer.

**Reference**