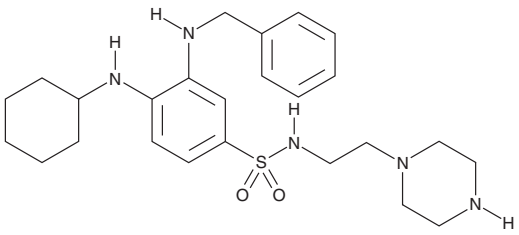
PRODUCT INFORMATION

UAMC-3203

Item No. 26525

CAS Registry No.: 2271358-64-4
Formal Name: 4-(cyclohexylamino)-3-[(phenylmethyl)amino]-N-[2-(1-piperazinyl)ethyl]-benzenesulfonamide
MF: $C_{25}H_{37}N_5O_2S$
FW: 471.7
Purity: ≥98%
UV/Vis.: λ_{max}: 237, 286 nm
Supplied as: A crystalline solid
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 crystalline solid. A stock solution may be made by dissolving the UAMC-3203 in the solvent of choice, which should be purged with an inert gas. UAMC-3203 is soluble in the organic solvent ethanol.

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

1. Devisscher, L., Van Coillie, S., Hofmans, S., *et al.* Discovery of novel, drug-like ferroptosis inhibitors with in vivo efficacy. *J. Med. Chem.* **61(22),** 10126-10140 (2018).

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