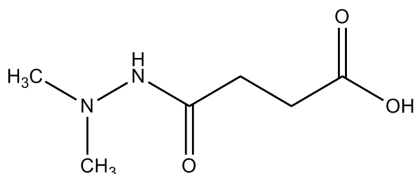


PRODUCT: Daminozide

ALTERNATE NAME: 1-(2,2-dimethylhydrazide)-butanedioic acid; Succinic acid mono(2,2-dimethylhydrazide)

CATALOG #: 2438-100, 500

AMOUNT: 100 mg, 500 mg

STRUCTURE:

MOLECULAR FORMULA: C₆H₁₂N₂O₃

MOLECULAR WEIGHT: 160.17

CAS No. 1596-84-5

APPEARANCE: White solid

Solubility: DMSO (~15 mg/ml) or EtOH (~ 3 mg/ml) or H₂O (~ 15 mg/ml)

PURITY: ≥95%

STORAGE: Store at -20°C. Protect from air and moisture

DESCRIPTION: A highly selective inhibitor of the human 2-oxoglutarate (JmjC) histone demethylases KDM2A, PHF8, and KDM7A with IC₅₀ values of 1.5, 0.55, and 2.1 μM, respectively. When tested for inhibition of other demethylase subfamily members (KDM3, KDM4, KDM5, KDM6) and other 2OG oxygenases (FIH, PHD2, BBOX1), daminozide was considerably less potent (IC₅₀s > 100 μM).

REFERENCES: Rose, N.R., *et al.* (2012). *J. Med. Chem.* **55**, 6639-6643.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Caffeic acid (Cat. No. 2303-50, 250)
Disulfiram (Cat. No. 2308-10, 50)
GSK-J4 hydrochloride (Cat. No. 2259-1, 5)
GSK-J1 sodium (Cat. No. 2260-1, 5)
IOX1 (Cat. No. 2266-5, 25)
β-Lapachone (Cat. No. 2262-5, 25)
2,4-PDCA (Cat. No. 2304-100, 500)
Tranylcypromine hemisulfate (Cat. No. 1816-25, 100)

USAGE:**FOR RESEARCH USE ONLY! Not to be used in humans.**