

Product Data Sheet

Product Name: KDOAM-25 citrate

Cat. No.: GC38709

Chemical Properties

Cas. No. 2448475-08-7

SMILES NC(C1=CC=NC(CNCC(N(CC)CCN(C)C)=O)=C1)=O.OC(CC(C(O)=O)(O)CC(O)=O)=O

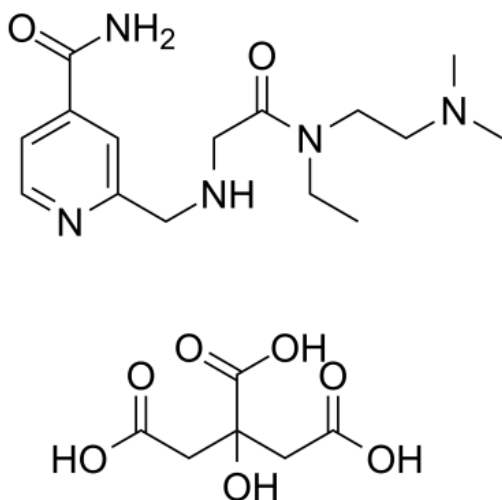
Formula $C_{21}H_{33}N_5O_9$ M.Wt 499.51

Solubility DMSO : 200 mg/mL (400.39 mM; Need ultrasonic) ; Water : 100 mg/mL (200.20 mM; Need ultrasonic) Storage 4°C, stored under nitrogen

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

KDOAM-25 citrate is a potent and highly selective KDM5 sub-family of histone lysine demethylases inhibitor with IC50s of 71 nM, 19 nM, 69 nM, 69 nM for KDM5A, KDM5B, KDM5C, KDM5D, respectively. KDOAM-25 citrate increases global H3K4 methylation at transcriptional start sites and

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

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impairs proliferation in multiple myeloma MM1S cells[1].

References:

[1]. Tumber A, et al. Potent and Selective KDM5 Inhibitor Stops Cellular Demethylation of H3K4me3 at Transcription Start Sites and Proliferation of MM1S Myeloma Cells. Cell Chem Biol. 2017 Mar 16;24(3):371-380.

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