
Product Data Sheet

Product Name: KDM2A/7A-IN-1

Cat. No.: GC36388

Chemical Properties

Cas. No. 2169272-46-0

SMILES CC(N([C@@H](C1=CN=CC(CCCCCCN2CCCC2)=C1)[C@@]3(C4=CC=CC=C4)C#N)C5=C3C=CC=C5)=O

Formula	C ₃₃ H ₃₈ N ₄ O	M.Wt	506.68
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Solubility	Soluble in DMSO	Storage	Store at -20°C
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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

KDM2A/7A-IN-1 is a first-in-class, selective and cell-permeable inhibitor of histone lysine demethylases KDM2A/7A, with an IC₅₀ of 0.16 μM for KDM2A, exhibits 75 fold selectivity over other JmjC lysine demethylases, and is inactive on methyl transferases, and histone acetyl transferases[1]. IC₅₀: 0.16 μM (KDM2A)[1]

KDM2A/7A-IN-1 ((S,S)-6) is a first-in-class, selective and cell-permeable inhibitor of histone lysine demethylases KDM2A/7A, with an IC₅₀ of 0.16 μM for KDM2A, exhibits 75 fold selectivity over other JmjC lysine demethylases, and is inactive to methyl transferases, and histone acetyl transferases[1]. KDM2A/7A-IN-1 (0.4, 3.1, 6.2 μM) augments cellular H3K36me₂ levels in HeLa cells ectopically expressing catalytically active KDM2A[1].

[1]. Gerken PA, et al. Discovery of a Highly Selective Cell-Active Inhibitor of the Histone Lysine Demethylases KDM2/7. *Angew Chem Int Ed Engl.* 2017 Dec 4;56(49):15555-15559.

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

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