
Product Data Sheet

Product Name: Mad1 (6-21)

Cat. No.: GC69424

Chemical Properties

Cas. No. 880150-82-3

Formula $C_{84}H_{140}N_{24}O_{26}S_2$

M.Wt

1966.29

Solubility

Storage

Store at -20°C

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**

Mad1 (6-21) is the 6-21 fragment of Mad1 protein. Mad1 (6-21) binds to mammalian Sin3A PAH2 with a K_d of ~29 nM^[1].

The PAH2 domain of mSin3A adopts a left-handed, up-and-down, four-helix bundle structure with residues in all four helices as well as in the turn regions defining a compact structural domain with an extensive hydrophobic core. Helices α_1 and α_2 form a deep hydrophobic pocket, which constitutes the primary interaction surface for the Mad1 (6-21) peptide. The Mad1 (6-21) forms an amphipathic α helix in the complex and interacts with PAH2 mainly through the apolar surface of the helix^[1].

[1]. K Brubaker, et al. Solution structure of the interacting domains of the Mad-Sin3 complex: implications for recruitment of a chromatin-modifying complex. Cell. 2000 Nov 10;103(4):655-65.

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

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