
Product Data Sheet

Product Name: KRpep-2d

Cat. No.: GC64447

Chemical Properties

Cas. No. 2098181-84-9

Formula C109H183N43O25S2

M.Wt 2560.02

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**

KRpep-2d is a K-Ras(G12D) selective inhibitory cyclic peptide with selectivity against wild-type (WT) K-Ras and the K-Ras(G12C) mutant. The IC50 value is 1.6 nM.

KRpep-2d binds to K-Ras[G12D] with a Kd of 8.9 nM and approximately 6-fold selectivity over WT K-Ras, leading to an extended dissociation half-life[1]. KRpep-2d significantly suppresses ERK-phosphorylation, downstream of K-Ras(G12D), along with A427 cancer cell proliferation at 30 μM peptide concentration[2].

[1] Satoshi Sogabe, et al. ACS Med Chem Lett. 2017, 8:732-736. [2] Sakamoto K, et al. Biochem Biophys Res Commun. 2017 Mar 11, 484(3):605-611.

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

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