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**Product Data Sheet**

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Product Name: Kisspeptin 10 (human)

Cat. No.: GC12558

**Chemical Properties**

Cas. No. 374675-21-5

Formula  $C_{63}H_{83}N_{17}O_{14}$ 

M.Wt 1302.45

Solubility DMF: 15 mg/ml, DMSO: 15 mg/ml, DMSO:PBS(pH 7.2)  
(1:2): 0.33 mg/mlStorage Desiccate 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**

Kisspeptin-10, human is a potent vasoconstrictor and inhibitor of angiogenesis. Kisspeptin-10, human acts as a tumor metastasis suppressor via its receptor GPR54. Kisspeptin-10-GPR54 system plays an important role in embryonic kidney development. Kisspeptin-10/GPR54 signaling induces osteoblast differentiation via NFATc4-mediated BMP2 expression[1].

Kisspeptin-10 (KP-10) and its receptor GPR54 are key components in the regulation of GnRH secretion in humans and other mammals. Kisspeptin-10 protein binds to GPR54. Activation of Kisspeptin-10 suppresses pulmonary human melanoma and Kisspeptin-10 is a metastasis suppressor in breast cancer cells[1].

Reference:

[1]. Son HE, et al. Kisspeptin-10 (KP-10) stimulates osteoblast differentiation through GPR54-mediated regulation of BMP2 expression and activation. Sci Rep. 2018 Feb 1;8(1):2134.

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

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