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**Product Data Sheet**

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Product Name: Setmelanotide TFA

Cat. No.: GC37629

**Chemical Properties**

Cas. No.

Formula  $C_{51}H_{69}F_3N_{18}O_{11}S_2$ 

M.Wt 1231.33

Solubility Soluble in DMSO

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**

Setmelanotide TFA (RM-493 TFA; BIM-22493 TFA; IRC-022493 TFA) is a selective melanocortin 4 receptor (MC4R) agonist with EC50s of 0.27 nM and 0.28 nM for human and rat MC4R, respectively[1]. EC50: 5.8 nM (hMC1R), 5.3 nM (hMC3R), 0.27 nM (hMC4R), 0.28 nM (rMC4R), 1600 nM (hMC5R)[1]Ki:3.9 nM (hMC1R), 10 nM (hMC3R), 2.1 nM (hMC4R), 430 nM (hMC5R), 2.7 nM (rMC4R)[1]

[1]. Kumar KG, et al. Analysis of the therapeutic functions of novel melanocortin receptor agonists in MC3R- and MC4R-deficient C57BL/6J mice. Peptides. 2009 Oct;30(10):1892-900.

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

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