

Product Data Sheet

Product Name: Chromenone 1

Cat. No.: GC70882

Chemical Properties

Cas. No. 1639929-29-5

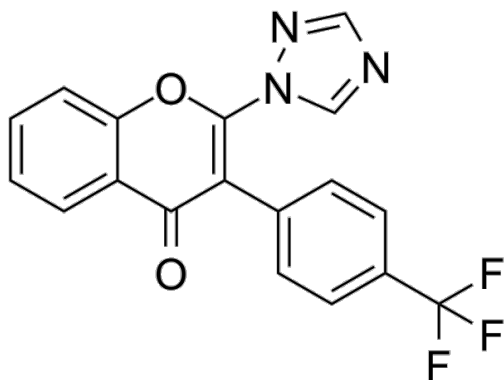
Formula $C_{18}H_{10}F_3N_3O_2$ M.Wt 357.29

Solubility DMSO : 100 mg/mL (279.88 mM); Storage 4°C, protect from light
Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

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

Chromenone 1 is a potent osteogenic bone morphogenetic protein (BMP) potentiator. Chromenone 1 exhibits a unique mode of action as it induces a pronounced, kinase-independent, negative TGFβ feedback that enhances nuclear BMP-Smad signaling outputs.

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

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Chromenone 1 rescues DMH-1-induced cardiogenesis ($IC_{50}=0.2\ \mu M$) and efficiently stimulates BMP-dependent osteogenesis from C2C12 myoblasts^[1].

References:

[1]. Wessler F, et al. Probing Embryonic Development Enables the Discovery of Unique Small-Molecule Bone Morphogenetic Protein Potentiators. J Med Chem. 2022;65(5):3978-3990.

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