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**Product Data Sheet**

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Product Name: pyCTZ TFA

Cat. No.: GC63159

**Chemical Properties**

Cas. No.

Formula  $C_{27}H_{21}F_3N_4O_3$ 

M.Wt

506.48

Solubility

Storage

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**

pyCTZ (Pyridyl CTZ) TFA, a pyridyl Coelenterazine (CTZ) analog, and is an ATP-independent pyridyl substrate of LumiLuc luciferase. pyCTZ TFA generates strong blue bioluminescence in the presence of luciferases. pyCTZ TFA can be used for aequorin-based calcium sensing[1].

pyCTZ TFA is comparable to native CTZ for bioluminescence intensity when pairs with aequorin[1].

[1]. Yeh HW, et, al. ATP-Independent Bioluminescent Reporter Variants To Improve in Vivo Imaging. ACS Chem Biol. 2019 May 17;14(5):959-965.

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

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