PRODUCT INFORMATION



Cypridina Luciferin (trifluoroacetate salt)

Item No. 41088

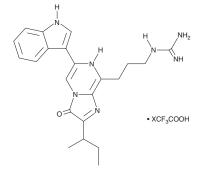
Formal Name: 1-(3-(2-(sec-butyl)-6-(1H-indol-3-yl)-3-oxo-

3,7-dihydroimidazo[1,2-a]pyrazin-8-yl)propyl)

guanidine, trifluoroacetate salt

Synonyms: Vargulin, Vargulin Luciferin C₂₂H₂₇N₇O • XCF₃COOH MF:

405.5 FW: ≥95% **Purity:** Supplied as: A solid Storage: -20°C Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Cypridina luciferin (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the cypridina luciferin (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. Cypridina luciferin (trifluoroacetate salt) is soluble in DMSO.

Description

Cypridina luciferin is a chemiluminescent substrate for luciferase. Upon hydrolysis by luciferase, it displays a luminescence maximum of 465 nm. Cypridina luciferin has been used in estrogen receptor α (ER α) reporter assays for the discovery of ERα-activating compounds in vitro and in bioluminescence resonance energy transfer (BRET) assays for tumor detection in vivo.^{2,3}

References

- 1. Shimomura, O., Johnson, F.H., and Masugi, T. Cypridina bioluminescence: Light-emitting oxyluciferinluciferase complex. Science 164(3885), 1299-1300 (1969).
- 2. Tochigi, Y., Sato, N., Sahara, T., et al. Sensitive and convenient yeast reporter assay for high-throughput analysis by using a secretory luciferase from Cypridina noctiluca. Anal. Chem. 82(13), 5768-5876 (2010).
- 3. Wu, C., Mino, K., Akimoto, H., et al. In vivo far-red luminescence imaging of a biomarker based on BRET from Cypridina bioluminescence to an organic dye. Proc. Natl. Acad. Sci. USA 106(37), 15599-15603 (2009).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website

Copyright Cayman Chemical Company, 07/16/2024

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM