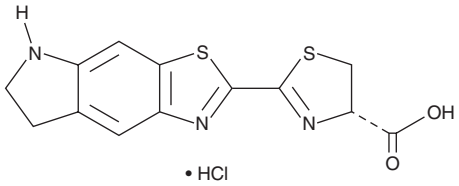
PRODUCT INFORMATION

CycLuc1 (hydrochloride)

Item No. 38321

Formal Name:	2-(6,7-dihydro-5H-pyrrolo[3,2-f] benzothiazol-2-yl)-4,5-dihydro-4S-thiazolecarboxylic acid, monohydrochloride
Synonym:	Cyclic Alkylaminoluciferin
MF:	$C_{13}H_{11}N_3O_2S_2$ • HCl
FW:	341.8
Purity:	≥98%
Em. Max:	603 nm
UV/Vis.:	λ_{max}: 227, 386 nm
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

CycLuc1 (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the CycLuc1 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. CycLuc1 (hydrochloride) is sparingly soluble (1-10 mg/ml) in DMSO.

Description

CycLuc1 is a chemiluminescent substrate for firefly luciferase.[1,2] Upon oxidative decarboxylation by firefly luciferase, it displays an emission maximum of 603 nm.[1] CycLuc1 accumulates and produces a chemiluminescent signal throughout the body, including the brain, in luciferase-expressing transgenic mice when administered intraperitoneally or intravenously.[2] It has been used in bioluminescence imaging (BLI) of mice.

References

1. Evans, M.S., Chaurette, J.P., Adams, S.T., Jr., *et al.* A synthetic luciferin improves bioluminescence imaging in live mice. *Nat. Methods* **11(4)**, 393-395 (2014).
2. Harwood, K.R., Mofford, D.M., Reddy, G.R., *et al.* Identification of mutant firefly luciferases that efficiently utilize aminoluciferins. *Chem. Biol.* **18(12)**, 1649-1657 (2011).

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

SAFETY DATA
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
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