

FUJIFILM**Wako**

Code No. 012-26701 (1 mg)
018-26703 (10 mg)
016-26704 (50 mg)
012-26706 (1 g)

Aka Lumine *n*-Hydrochloride (AkaLumine-HCl), (TokeOni)

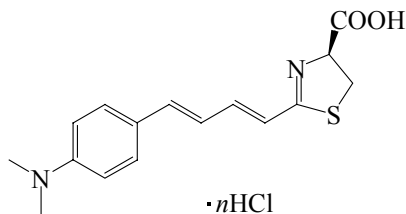
アカルミネ™ *n*塩酸塩
(アカルミネ™ 塩酸塩), (トケオニ)

Aka Lumine-HCl is a bioluminescent substrate which has peak emission wavelength of about 670 ~ 680 nm¹⁾. It is suitable for the *in vivo* imaging with the peak emission wavelength in the optical window (650 nm ~ 1,000 nm)^{2), 3)}. Optical window is ideally suited for *in vivo* imaging because of minimal light absorption by hemoglobin and water.

Recently, Dr. Iwano and Dr. Miyawaki et al. developed AkaBLI that is a new bioluminescence *in vivo* imaging system. AkaBLI produced emissions *in vivo* that were brighter by a factor of 100 to 1000 than conventional systems. AkaBLI is expected to find out unprecedented scientific, medical, and industrial applications.

[Formulation] : Dark reddish purple ~ black, crystalline powder ~ powder or paste

[Structural formula] :



[Molecular formula] : C₁₆H₁₈N₂O₂S · *n*HCl

[Molecular weight] : 302.39 (as C₁₆H₁₈N₂O₂S)

[Usage] : Dissolve in a water or a saline and use it immediately after dissolving.

Do not dissolve in a buffer because of returning to the AkaLumine.

AkaLumine is not good solubility.

[Storage] : Store at -80 °C with inert gas. Protect from the light.

[Package] :

Code No.	Packaging
012-26701	1 mg
018-26703	10 mg
016-26704	50 mg
012-26706	1 g

[Note] : As for this product, the content of D-form is different between lots. Therefore, the emission intensity might be different.

[References] :

- (1) Maki, S., Kojima, S. and Niwa, H. : WO/2009/096197
- (2) Tromberg, B. J., Shah, N., Lanning, R., Cerussi, A., Espinoza, J., Pham, T., Svaacsand, L. and Butler, J. : *Neoplasia.*, **2**, 26, (2000)
- (3) Weissleder, R. : *Nat. Biotechnol.*, **19**, 316, (2001)
- (4) Kuchimaru, T., Iwano, S., Kiyama, M., Mitsumata, S., Kadosono, T., Niwa, H., Maki, S. and Kizaka-Kondoh, S. : *Nature Communications.*, **7**, 11856 (2016).
- (5) Iwano, S. et al. : *Science.*, **359**, 935 (2018).

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