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D-Luciferin, Potassium Salt

D-Luciferin is a substrate for the enzyme firefly luciferase. Chemiluminescence at 560 nm is generated when luciferin is oxidized by an ATP-dependent process, catalyzed by luciferase.



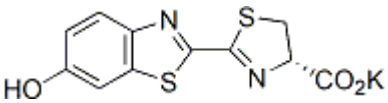
Product attributes

CAS number	115144-35-9

Product Description

D-Luciferin is a substrate for the enzyme firefly luciferase. Chemiluminescence at 560 nm is generated when luciferin is oxidized by an ATP-dependent process, catalyzed by luciferase. Luciferase is encoded by the *luc* gene, which is widely used as a reporter gene in a variety of cells. Because of the intrinsic low background of chemiluminescence technique, detection of the luc gene expression can be made at very low level. In addition, luciferin/luciferase has been used to measure 10^{-15} molar quantity of ATP.
D-luciferin, potassium salt is a water-soluble form of D-luciferin.

- Light yellow solid soluble in water
- Store at -20°C and protect from light
- $C_{11}H_7KN_2O_3S_2$
- Mwt: 318.4
- [115144-35-9]



References

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