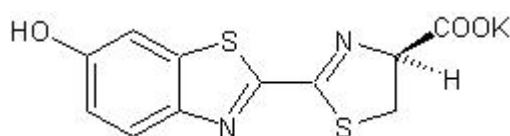


D-Luciferin, potassium salt

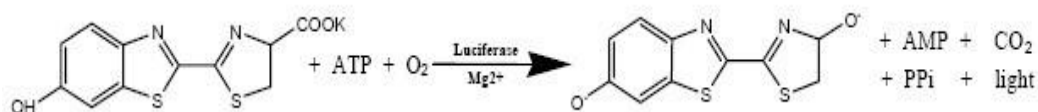
Cat #:	BGT-CHM-612
MF:	$C_{11}H_7N_2KO_3S_2$
CAS:	115144-35-9
MW:	318.41
Purity:	≥99% (HPLC)
Storage:	Store dry and dark at -20°C.
Appearance:	Yellow Solid



Description:

D-Luciferin is a firefly luciferase substrate with a quantum efficiency of 0.88, which is 20 times higher than Luminol.

Reaction principle: Firstly, in the presence of magnesium ions, luciferase reacts luciferin with ATP, which is then oxidized to form a dioxolane structure and emits yellow green light. Luciferin luciferase luminescence is used for ATP monitoring to determine cell viability and bacterial count. It is also used for reporter gene assay. Can be used to combine with small animal live imaging systems for in vivo fluorescence detection after labeling LUC genes.



Note:

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.