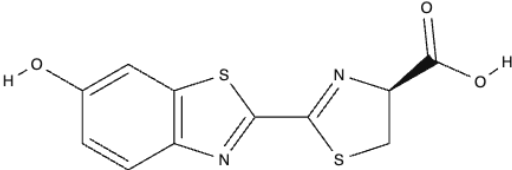


D-Luciferin (Free Acid)

Catalog number BL-2025001

Key facts

CAS number	2591-17-5	
Molecular weight	280.32 g/mol	
Molecular formula	C ₁₁ H ₈ N ₂ O ₃ S ₂	
Synonyms	Firefly luciferin, beetle luciferin	
SMILES	<chem>O=C(O)C3CSC(c2nc1ccc(O)cc1s2)=N3</chem>	
InChiKey	BJGNCJDXODQBOB-UHFFFAOYSA-N	
IUPAC Name	(4S)-2-(6-hydroxy-1,3-benzothiazol-2-yl)-4,5-dihydrothiazole-4-carboxylic acid	

Quality specifications

Color	White to almost white to faint yellow
Form	Powder
Solubility	Soluble in Methanol, DMSO
Purity (HPLC)	≥ 98%
Activity	Very high. Tested using an in-house bioluminescence assay.
Retest period	3 years

Application examples

- Bioluminescence imaging in in-vitro and in vivo assays
- Gene expression studies using Luciferase reporters
- ATP detection and real-time cell viability assays
- Tumor tracking and infectious disease research

Storage & Safety

Packaging	The product is packed in an amber glass vial, sealed under argon with a crimp cap.
Shipping	The product is shipped at ambient temperature. Stability testing has confirmed that short-term exposure to elevated temperatures does not affect its activity or quality.
Storage	Store in an airtight container at -20°C. Protect from light, moisture, and oxygen.
Safety information	This product is not classified as hazardous under REACH/CLP regulations. For research use only. Not for human or veterinary use.

Warranty and Return Policy

This product is warranted to meet the specifications listed in this data sheet. If the product does not meet the specifications promised in this data sheet or the product is received in damaged condition, please contact customer support within 14 days for a resolution. Full details for terms and conditions can be found here: [Terms & Conditions](#).