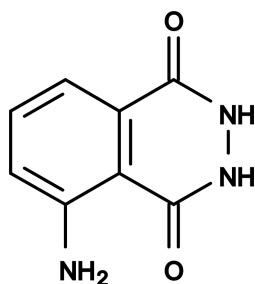


**Luminol [3-Aminophthalhydrazide] *CAS
521-31-3***Catalog number: 11050
Unit size: 1 g**Product Details**

Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	12 months upon receiving

Chemical Properties

Appearance	White solid
Molecular Weight	177.16
Soluble In	DMSO
Chemical Structure	

**Spectral Properties**

Excitation Wavelength	355 nm
Emission Wavelength	412 nm

Applications

Luminol [3-Aminophthalhydrazide] is a luminescent peroxidase substrate. To exhibit its luminescence, luminol must be activated with an oxidant. HRP catalyzes the decomposition of hydrogen peroxide. When luminol reacts with the hydroxide ion, a dianion is formed. The oxygen produced from the hydrogen peroxide then reacts with the luminol dianion. The product of this reaction, an organic peroxide, is very unstable and is made by the loss of a nitrogen, the change of electrons from excited state to ground state, and the emission of energy as a photon. This emission produces the blue glow.