

Product Name: BL<sub>660</sub>-NO

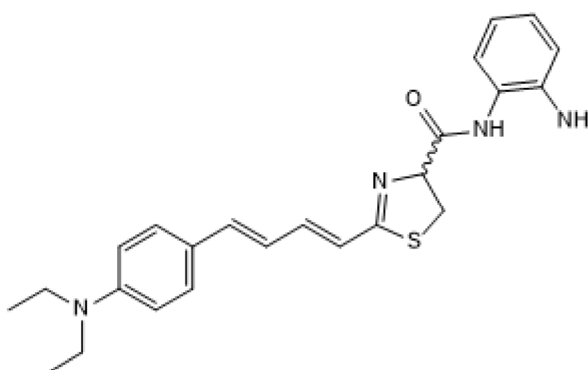
Catalog No.: 7753

Batch No.: 1

IUPAC Name: *N*-(2-Aminophenyl)-2-((1*E*,3*E*)-4-(4-(diethylamino)phenyl)buta-1,3-dien-1-yl)-4,5-dihydrothiazole-4-carboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C <sub>24</sub> H <sub>28</sub> N <sub>4</sub> OS.
Batch Molecular Weight:	420.58
Physical Appearance:	Orange solid
Solubility:	DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



## 2. ANALYTICAL DATA

HPLC:	Shows 98.7% purity
<sup>1</sup> H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	
	Carbon Hydrogen Nitrogen
Theoretical	68.54 6.71 13.32
Found	68.3 6.79 13.27
Enantiomeric excess::	23.9%

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

BL 660-NO is an activity-based sensing (ABS) bioluminescent probe for near-infrared red (NIR) bioluminescent detection of nitric oxide (NO). BL 660-NO is sensitive suitable for in vitro, live cell and deep tissue imaging. Used to visualize endogenous NO in vitro, and in murine models of liver and breast cancer. Used to investigate the effect of diet on tumor microenvironment (TME) in mice. This product is a scalemic mixture of (S) and (R) enantiomers in which (S) is predominant. The exact ratio is batch specific and is expressed as an enantiomeric excess (e.e.) on the Certificate of Analysis.

**Physical and Chemical Properties:**

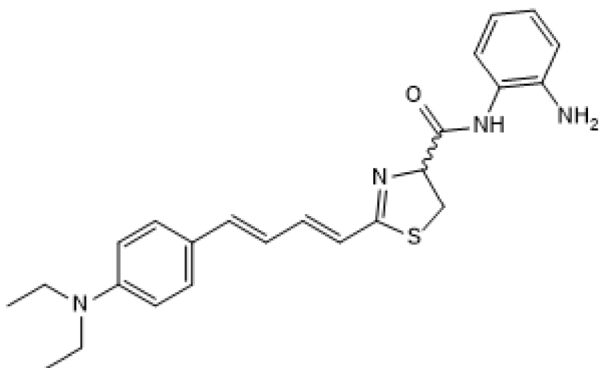
Batch Molecular Formula: C<sub>24</sub>H<sub>28</sub>N<sub>4</sub>OS.

Batch Molecular Weight: 420.58

Physical Appearance: Orange solid

**Minimum Purity:** ≥90%

**Batch Molecular Structure:**



**Storage:** Store at -20°C. This product is packaged under an inert atmosphere.

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

Yadav *et al* (2022) Activity-based NIR bioluminescence probe enables discovery of diet-induced modulation of the tumor microenvironment via nitric oxide. *ACS Cent.Sci.* **8** 461. PMID: 35505872.

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