1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** C_{21}H_{21}NO_{4}
- **Batch Molecular Weight:** 351.4
- **Physical Appearance:** red/orange solid
- **Solubility:** DMSO to 50 mM
- **Storage:** Store at -80°C

![Batch Molecular Structure](image)

2. ANALYTICAL DATA

- **TLC:** \( R_f = 0.4 \) (Ethyl acetate:Petroleum ether [1:1])
- **HPLC:** Shows 99.8% purity
- **\(^1\)H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  - Theoretical: Carbon 71.78, Hydrogen 6.02, Nitrogen 3.99
  - Found: Carbon 71.61, Hydrogen 5.73, Nitrogen 4.09

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

bio-techne.com info@bio-techne.com technsupport@bio-techne.com
North America Tel: (800) 343 7475 China Tel: +86 (21) 52380373
Europe Middle East Africa Tel: +44 (0)1235 529449 Rest of World www.tocris.com/distributors Tel:+1 612 379 2956

www.tocris.com
Product Name: Neurosensor 521
Catalog No.: 5905
Batch No.: 1

CAS Number: 1428730-05-5
IUPAC Name: 7-(Diethylamino)-4-(4-methoxyphenyl)-2-oxo-2H-1-benzopyran-3-carboxaldehyde

Description:
Selective noradrenalin and dopamine fluorescent indicator. Exhibits selectivity over adrenalin, glycine and glutamate. Enables visualization of noradrenalin and dopamine in fixed and live cells. Excitation wavelength 488 nm, emission 521 nm.

Physical and Chemical Properties:
Batch Molecular Formula: C_{21}H_{21}NO
Batch Molecular Weight: 351.4
Physical Appearance: red/orange solid
Minimum Purity: >98%

Storage: Store at -80°C
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 50 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. Our standard recommendations are:
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: